*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR SELECTED USES GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
1A Colvard fine sandy loam; frequently flooded 0 - 2%	Very deep, well drained, dark yellowish brown sandy floodplain soils; developed in alluvial materials derived from upland soil material weathered from predominantly metamorphic and crystalline rocks	Slight 0.32, 0.20 B	VERY POOR within 100-year floodplain; frequent flooding; rare ponding **Bearing Capacity:** low **Shrink-swell Potential:** low	NOT SUITED flooding potential	PRIME PASTURE	MODERATE	IIw
2A Codorus loam; frequently flooded 0 - 2%	Very deep, moderately well drained, yellowish brown loamy soils with intermittent high water tables on floodplains; developed in alluvium washed from crystalline and metamorphic rocks; may have HYDRIC soil inclusions	Slight 0.28, 0.24 C	VERY POOR within 100-year floodplain; frequent flooding; occasional ponding; intermittent high water table **Bearing Capacity:** very low **Shrink-swell Potential:** low	NOT SUITED flooding potential	SECONDARY CROPLAND	VERY HIGH	IIw
3A Suches loam; frequently flooded 0 - 2%	Very deep, well drained, yellowish brown silty soils on floodplains; developed in alluvium washed from metamorphic and crystalline rocks	Slight 0.28, 0.24 B	VERY POOR within 100-year floodplain; frequent flooding; rare ponding **Bearing Capacity:** low **Shrink-swell Potential:** low	NOT SUITED flooding potential	SECONDARY CROPLAND	HIGH	IIw
4A Hatboro silt loam; frequently flooded 0 - 2%	Very deep, poorly drained, gray loamy soils with intermittent high water tables on concave depressions in floodplains; developed in alluvium washed from crystalline and metamorphic rocks; HYDRIC SOIL	Slight 0.37, 0.20 D	VERY POOR within 100-year floodplain; frequent flooding; occasional ponding; high water table **Bearing Capacity:** very low **Shrink-swell Potential:** low	NOT SUITED flooding potential	NOT SUITED	MODERATELY LOW	IIIw
5A Rowland silt loam; frequently flooded 0 – 2%	Very deep, moderately well drained, mottled yellowish-brown and weak red silty soils with high water tables on floodplains; developed in alluvium from Triassic uplands; may have HYDRIC soil inclusions	Slight 0.43, 0.43 C	VERY POOR within 100-year floodplain; frequent flooding; occasional ponding; intermittent high water table **Bearing Capacity:** very low **Shrink-swell Potential:** low	NOT SUITED flooding potential	SECONDARY CROPLAND	MODERATELY HIGH	IIw

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MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
6A Bowmansville silt loam; frequently flooded 0 - 2%	Very deep, somewhat poorly to poorly drained, gray and strong brown clayey soils in back channels and depressions in floodplains; developed from alluvium washed from Triassic uplands; HYDRIC SOIL	Slight 0.32, 0.28 D	VERY POOR within 100-year floodplain; frequent flooding; occasional ponding; high water table **Bearing Capacity:** very low **Shrink-swell Potential:** moderate	NOT SUITED flooding potential	NOT SUITED	MODERATELY HIGH	IIIw
7A Bermudian silt loam; occasionally flooded 0 – 2%	Very deep, well drained, brown loamy soils on narrow floodplains; developed in alluvium washed from Triassic uplands	Slight 0.37, 0.28 B	VERY POOR within 100-year floodplain; occasional flooding; rare ponding **Bearing Capacity:** low **Shrink-swell Potential:** low	POOR flooding potential	PRIME CROPLAND	HIGH	I
8A** Codorus Variant loam; frequently flooded 0 - 2%	Very deep, somewhat poorly drained, yellowish brown loamy soils with intermittent high water tables on floodplains; developed in alluvium washed from crystalline and metamorphic rocks; may have HYDRIC soil inclusions	Slight 0.28, 0.24 C	VERY POOR Within 100-year floodplain; frequent flooding; occasional ponding; high water table **Bearing Capacity:** very low **Shrink-swell Potential:** low	NOT SUITED flooding potential	SECONDARY PASTURE	MODERATELY HIGH	
9A Mongle loam, very stony 0 - 2%	Very deep, somewhat poorly drained, yellowish brown loamy soils with intermittent high water tables in concave landscapes, along small drainageways and on alluvial fans; contains 0.1 – 3% surface stones; developed in recent colluvium/alluvium washed from basic and acidic rocks; may have HYDRIC soil inclusions	Slight 0.37, 0.37 C	VERY POOR may be within l00-year floodplain; frequent flooding; high water table; concentrated runoff from higher areas; overland flow-significant destructive potential during flooding events; surface stones **Bearing Capacity:** moderate **Shrink-swell Potential:** moderate	NOT SUITED high water table	NOT SUITED	MODERATELY LOW	VIs

*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
9B** Mongle loam, very stony 2 - 7%	Very deep, somewhat poorly drained, yellowish brown loamy soils with intermittent high water tables in concave landscapes, along small drainageways and on alluvial fans; contains 0.1 – 3% surface stones; developed in recent colluvium/alluvium washed from basic and acidic rocks; may have HYDRIC soil inclusions	Slight 0.37, 0.37 C	VERY POOR may be within l00-year floodplain; frequent flooding; high water table; concentrated runoff from higher areas; overland flow-significant destructive potential during flooding events; surface stones **Bearing Capacity:** moderate **Shrink-swell Potential:** moderate	NOT SUITED high water table	NOT SUITED	MODERATELY LOW	
10A Mongle loam 0 - 2%	Very deep, somewhat poorly drained, yellowish brown loamy soils with intermittent high water tables in concave landscapes, along small drainageways and on alluvial fans; developed in recent colluvium/alluvium washed from basic and acidic rocks; may have HYDRIC soil inclusions	Slight 0.37, 0.37 C	VERY POOR may be within l00-year floodplain; frequent flooding; high water table; concentrated runoff from higher areas; overland flow-significant destructive potential during flooding events; surface stones **Bearing Capacity:** moderate **Shrink-swell Potential:** moderate	NOT SUITED high water table	SECONDARY PASTURE	MODERATE	IVw
10B** Mongle loam 2 - 7%	Very deep, somewhat poorly drained, yellowish brown loamy soils with intermittent high water tables in concave landscapes, along small drainageways and on alluvial fans; developed in recent colluvium/alluvium washed from basic and acidic rocks; may have HYDRIC soil inclusions	Moderate 0.37, 0.37 C	VERY POOR may be within l00-year floodplain; frequent flooding; high water table; concentrated runoff from higher areas; overland flow-significant destructive potential during flooding events; surface stones **Bearing Capacity:** moderate **Shrink-swell Potential:** moderate	NOT SUITED high water table	SECONDARY PASTURE	MODERATE	
11A Rohrersville loam; stony 0 - 2%	Very deep, somewhat poorly drained, brownish-yellow loam soils with intermittent high water tables in drainageways; developed in recent greenstone colluvium/alluvium washed from steep rocky slopes; may have HYDRIC soil inclusions	Slight 0.37, 0.43 D	VERY POOR may be within l00-year floodplain; frequent flooding; high water table; concentrated runoff from higher areas; overland flow-significant destructive potential during flooding events **Bearing Capacity:** low **Shrink-swell Potential:** moderate	NOT SUITED high water table	SECONDARY PASTURE	MODERATE	IIIw

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MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
12A Rohrersville loam 0 - 2%	Very deep, somewhat poorly drained, brownish-yellow loam soils with intermittent high water tables in drainageways; developed in recent greenstone colluvium/alluvium; may have HYDRIC soil inclusions	Slight 0.37, 0.43 D	VERY POOR may be within l00-year floodplain; frequent flooding; high water table; concentrated runoff from higher areas; overland flow-significant destructive potential during flooding events **Bearing Capacity:** low **Shrink-swell Potential:** moderate	NOT SUITED high water table	SECONDARY PASTURE	MODERATE	IIIw
13A** Sumerduck loam 0 - 2%	Very deep, moderately well to somewhat poorly drained, strong brown loamy soils with intermittent high water tables in drainageways; developed in alluvium and colluvium from adjacent uplands; may have HYDRIC soil inclusions	Slight 0.37, 0.32 B	POOR frequent flooding; concentrated runoff from higher areas; intermittent high water table; low bearing capacity **Bearing Capacity:** low **Shrink-swell Potential:** low	NOT SUITED high water table landscape position	PRIME PASTURE	MODERATE	
13B Sumerduck loam 2 - 7%	Very deep, moderately well to somewhat poorly drained, strong brown loamy soils with intermittent high water tables in drainageways; developed in alluvium and colluvium from adjacent uplands; may have HYDRIC soil inclusions	Moderate 0.37, 0.32 B	POOR frequent flooding; concentrated runoff from higher areas; intermittent high water table; low bearing capacity **Bearing Capacity:** low **Shrink-swell Potential:** low	NOT SUITED high water table landscape position	PRIME PASTURE	MODERATE	IVw
14A** Sowego loam 0 - 2%	Deep, well to moderately-well drained dark reddish-brown loamy soils with intermittent high water tables in concave upland landscapes (swales) and drainageways; developed in local colluvium and residuum of materials derived from Triassic siltstone, shale and conglomerate; may have HYDRIC soil inclusions	Slight 0.37, 0.24 B	POOR frequent flooding; concentrated runoff from higher areas; intermittent high water table; low bearing capacity **Bearing Capacity:** low **Shrink-swell Potential:** low	NOT SUITED landscape position	PRIME CROPLAND	MODERATELY HIGH	

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MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
14B Sowego loam 2 - 7%	Deep, well to moderately-well drained dark reddish-brown loamy soils with intermittent high water tables in concave upland landscapes (swales) and drainageways; developed in local colluvium and residuum of materials derived from Triassic siltstone, shale and conglomerate; may have HYDRIC soil inclusions	Moderate 0.37, 0.24 B	POOR frequent flooding; concentrated runoff from higher areas; intermittent high water table; low bearing capacity **Bearing Capacity:** low **Shrink-swell Potential:** low	NOT SUITED landscape position	PRIME CROPLAND	MODERATELY HIGH	IIe
14C** Sowego loam 7 - 15%	Deep, well to moderately-well drained dark reddish-brown loamy soils with intermittent high water tables in concave upland landscapes (swales) and drainageways; developed in local colluvium and residuum of materials derived from Triassic siltstone, shale and conglomerate; may have HYDRIC soil inclusions	Moderate 0.37, 0.24 B	POOR frequent flooding; concentrated runoff from higher areas; intermittent high water table; low bearing capacity **Bearing Capacity:** low **Shrink-swell Potential:** low	NOT SUITED landscape position	SECONDARY CROPLAND	MODERATELY HIGH	
15A** Seneca loam 0 - 2%	Very deep, moderately well drained, yellowish-brown loamy soils with intermittent high water tables in concave swales and along small drainageways; developed in recent colluvium and local wash from crystalline and metamorphic uplands; may have HYDRIC soil inclusions	Slight 0.37, 0.28 B	POOR frequent flooding; intermittent high water table; concentrated runoff from higher areas; low bearing capacity when wet **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED high water table landscape position	SECONDARY CROPLAND	MODERATELY HIGH	
15B** Seneca loam 2 - 7%	Very deep, moderately well drained, yellowish-brown loamy soils with intermittent high water tables in concave swales and along small drainageways; developed in recent colluvium and local wash from crystalline uplands; may have HYDRIC soil inclusions	Moderate 0.37, 0.28 B	POOR frequent flooding; intermittent high water table; concentrated runoff from higher areas; low bearing capacity when wet **Bearing Capacity:** moderate **Shrink- swell Potential:** low	NOT SUITED high water table landscape position	SECONDARY CROPLAND	MODERATELY HIGH	

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MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
15C** Seneca loam 7 - 15%	Very deep, moderately well drained, yellowish-brown loamy soils with intermittent high water tables in concave swales and along small drainageways; developed in recent colluvium and local wash from crystalline uplands; may have HYDRIC soil inclusions	Moderate 0.37, 0.28 B	POOR frequent flooding; intermittent high water table; concentrated runoff from higher areas; low bearing capacity when wet **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED high water table landscape position	SECONDARY CROPLAND	MODERATELY HIGH	
l6A** Meadowville silt loam 0 - 2%	Very deep, well drained, yellowish-brown to reddish-brown silty soils with intermittent high water tables in concave uplands and along small drainageways; developed in recent colluvium and local wash from acid rock materials; may have HYDRIC soil inclusions	Moderate 0.37, 0.32 B	POOR frequent flooding; intermittent high water table; concentrated runoff from higher areas; low bearing capacity when wet **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED landscape position	PRIME CROPLAND	MODERATELY HIGH	
l6B** Meadowville silt loam 2 - 7%	Very deep, well drained, yellowish-brown to reddish-brown silty soils with intermittent high water tables in concave uplands and along small drainageways; developed in recent colluvium and local wash from acid rock materials; may have HYDRIC soil inclusions	Moderate 0.37, 0.32 B	POOR frequent flooding; intermittent high water table; concentrated runoff from higher areas; low bearing capacity when wet **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED landscape position	PRIME CROPLAND	MODERATELY HIGH	
l6C** Meadowville silt loam 7 - 15%	Very deep, well drained, yellowish-brown to reddish-brown silty soils with intermittent high water tables in concave uplands and along small drainageways; developed in recent colluvium and local wash from acid rock materials; may have HYDRIC soil inclusions	Moderate 0.37, 0.32 B	POOR frequent flooding; intermittent high water table; concentrated runoff from higher areas; low bearing capacity when wet **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED landscape position	SECONDARY CROPLAND	MODERATELY HIGH	

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17A** Middleburg loam 0 - 2%	Very deep, well drained, brown loamy soils in concave swales and along small drainageways; developed in recent colluvium and local wash from crystalline uplands; may have HYDRIC soil inclusions	Slight 0.37, 0.32 B	POOR frequent flooding; intermittent high water table; concentrated runoff from higher areas; low bearing capacity when wet **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED landscape position	PRIME CROPLAND	HIGH	
17B Middleburg loam 2 - 7%	Very deep, well drained, brown loamy soils in concave swales and along small drainageways; developed in recent colluvium from mixed basic and acidic rock; may have HYDRIC soil inclusions	Moderate 0.37, 0.32 B	POOR frequent flooding; intermittent high water table; concentrated runoff from higher areas; low bearing capacity when wet **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED landscape position	PRIME CROPLAND	HIGH	IIe
17C** Middleburg loam 7 - 15%	Very deep, well drained, brown loamy soils in concave swales and head of drainageways; developed in recent colluvium and local wash from crystalline uplands; may have HYDRIC soil inclusions	Moderate 0.37, 0.32 B	POOR frequent flooding; intermittent high water table; concentrated runoff from higher areas; low bearing capacity when wet **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED landscape position	SECONDARY CROPLAND	HIGH	
18B** Tankerville – Purcellville loam, very rocky 2 - 7%	Moderately deep, well drained, strong brown, coarse-loamy (Tankerville) and very deep, well drained , strong brown silty (Purcellville) soils on undulating summits and gently sloping backslopes; 2-10% rock outcrop and 0.1-3% stones and/or boulders cover the surface; developed in residuum from granite, granite gneiss and granitic schist	Moderate 0.32, 0.24 – 0.32, 0.28 C - B	POOR shallow to rock; rock outcrop; stoniness **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock	SECONDARY PASTURE	LOW	
18C Tankerville – Purcellville loam, very rocky 7 - 15%	Moderately deep, well drained, strong brown, coarse-loamy (Tankerville) and very deep, well drained , strong brown silty (Purcellville) soils on rolling summits and strongly sloping backslopes; 2-10% rock outcrop and 0.1-3% stones and/or boulders cover the surface; developed in residuum from granite, granite gneiss and granitic schist	Moderate 0.32, 0.24 – 0.32, 0.28 C - B	POOR shallow to rock; rock outcrop; stoniness **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock	SECONDARY PASTURE	LOW	VIs

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18D Tankerville loam, very rocky 15 - 25%	Moderately deep, well drained, strong brown, coarse-loamy soils on moderately steep backslopes; 2-10% rock outcrop and 3-15% stones and/or boulders cover the surface; developed in residuum from granite, granite gneiss and granitic schist	High 0.32, 0.24 c	POOR shallow to rock; steep slopes; stoniness **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock steep slopes	SECONDARY PASTURE	LOW	VIs
18E Tankerville loam, very rocky 25 - 45%	Moderately deep, well drained, strong brown, coarse-loamy soils on steep backslopes; 2-10% rock outcrop and 1-20% stones and/or boulders cover the surface; developed in residuum from granite, granite gneiss and granitic schist	Very high 0.32, 0.24 C	VERY POOR steep slopes; rock outcrops; stoniness **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED steep slopes rock outcrops	NOT SUITED	LOW	VIIe
18F** Tankerville loam, very rocky 45 - 65%	Moderately deep, well drained, strong brown, coarse-loamy soils on very steep backslopes; 2-10% rock outcrop and 1-20% stones and/or boulders cover the surface; developed in residuum from granite, granite gneiss and granitic schist	Very high 0.32, 0.24 C	VERY POOR steep slopes; rock outcrops **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED steep slopes rock outcrops	NOT SUITED	LOW	
19B** Tankerville-Rock outcrop complex 2 - 7%	Moderately deep, well drained, strong brown, coarse-loamy soils on undulating summits and gently sloping backslopes; 10 to 25% rock outcrops; loose stones and/or boulders cover 0 to 45% of the surface,; developed in residuum from granite, granite gneiss and granitic schist	Moderate 0.32, 0.24 C	VERY POOR rock outcrops; stoniness **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED rock outcrops	NOT SUITED	LOW	
19C** Tankerville-Rock outcrop complex 7 - 15%	Moderately deep, well drained, strong brown, coarse-loamy soils on rolling summits and strongly sloping backslopes; 10 to 25% rock outcrops; loose stones and/or boulders cover 0 to 45% of the surface,; developed in residuum from granite, granite gneiss and granitic schist	Moderate 0.32, 0.24 C	VERY POOR rock outcrops; stoniness **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED rock outcrops	NOT SUITED	LOW	
19D Tankerville-Rock outcrop complex 15 - 25%	Moderately deep, well drained, strong brown, coarse-loamy soils on moderately steep backslopes and 10 to 25% rock outcrops; loose stones and/or boulders cover 0 to 45% of the surface,; developed in residuum from granite, granite gneiss and granitic schist	High 0.32, 0.24 C	VERY POOR steep slopes; rock outcrops; stoniness **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED steep slopes rock outcrops	NOT SUITED	LOW	VIIs
19E Tankerville-Rock outcrop complex 25 - 45%	Moderately deep, well drained, strong brown, coarse-loamy soils on steep backslopes and 10 to 25% rock outcrop; 0-60% stones and/or boulders cover the surface; developed in residuum from granite, granite gneiss and granitic schist	Very high 0.32, 0.24 C	VERY POOR steep slopes, rock outcrops **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED steep slopes rock outcrops	NOT SUITED	LOW	VIIs

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19F** Tankerville-Rock outcrop complex 45 - 65%	Moderately deep, well drained, strong brown, coarse-loamy soils on very steep backslopes and 10 to 25% rock outcrop; 0-60% stones and/or boulders cover the surface; developed in residuum from granite, granite gneiss and granitic schist	Very high 0.32, 0.24 C	VERY POOR steep slopes, rock outcrops **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED steep slopes rock outcrops	NOT SUITED	LOW	
20B** Tankerville – Purcellville complex, rocky 2 - 7%	Moderately deep, well drained, strong brown coarse-loamy soils (Tankerville) and very deep, well drained, strong brown fine-silty soils (Purcellville) on undulating summits and gently sloping backslopes; 0.1 – 2% rock outcrop; developed in residuum from granite, schist and gneiss	Moderate 0.32, 0.24 – 0.32, 0.28 C - B	FAIR shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL shallow to rock	PRIME PASTURE	LOW	
20C Tankerville – Purcellville complex, rocky 7 - 15%	Moderately deep, well drained, strong brown coarse-loamy soils (Tankerville) and very deep, well drained, strong brown fine-silty soils (Purcellville) on rolling summits and strongly sloping backslopes; 0.1 – 2% rock outcrop; developed in residuum from granite, schist and gneiss	Moderate 0.32, 0.24 – 0.32, 0.28 C - B	FAIR shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL shallow to rock	PRIME PASTURE	LOW	IIIe
20D Tankerville – Purcellville complex, rocky 15 - 25%	Moderately deep, well drained, strong brown coarse-loamy soils (Tankerville) and very deep, well drained, strong brown fine-silty soils (Purcellville) on moderately steep backslopes; 0.1 – 2% rock outcrop; developed in residuum from granite, schist and gneiss	High 0.32, 0.24 – 0.32, 0.28 C - B	POOR steep slopes; shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock steep slopes	PRIME PASTURE	LOW	IVe
20E Tankerville loam; rocky 25 - 45%	Moderately deep, well drained, strong brown, coarse- loamy soils on steep backslopes; 0.1 – 2% rock outcrop; developed in residuum from granite, granite gneiss and granitic schist	Very high 0.32, 0.24 C	VERY POOR steep slopes; shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED steep slopes shallow to rock	SECONDARY PASTURE	LOW	VIIe
21A** Edneytown loam 0 - 2%	Very deep, well drained, yellowish-brown loamy soils on near level summits and backslopes; developed in residuum from, augen gneiss, granite gneiss and granite	Slight 0.28, 0.24 B	GOOD **Bearing Capacity:** moderate **Shrink-swell Potential:** low	GOOD	PRIME CROPLAND	MODERATE	

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MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
21B** Edneytown loam 2 - 7%	Very deep, well drained, yellowish-brown loamy soils on undulating summits and gently sloping backslopes; developed in residuum from, augen gneiss, granite gneiss and granite	Moderate 0.28, 0.24 B	GOOD **Bearing Capacity:** moderate **Shrink-swell Potential:** low	GOOD	PRIME CROPLAND	MODERATE	
21C Edneytown loam 7 - 15%	Very deep, well drained, yellowish-brown loamy soils on rolling summits and strongly sloping backslopes; developed in residuum from, augen gneiss, granite gneiss and granite	Moderate 0.28, 0.24 B	GOOD **Bearing Capacity:** moderate **Shrink-swell Potential:** low	GOOD	SECONDARY CROPLAND	MODERATE	IIIe
21D Edneytown loam 15 - 25%	Very deep, well drained, yellowish-brown loamy soils on moderately steep backslopes; developed in residuum from, augen gneiss, granite gneiss and granite	High 0.28, 0.24 B	FAIR steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL steep slopes	PRIME PASTURE	MODERATE	IVe
21E	**SEE MAP UNIT 121E**						
22B Purcellville - Swampoodle complex 2 – 7%	Very deep, well drained, strong brown silty soils (Purcellville) and very deep, moderately well drained, brownish yellow loamy soils (Swampoodle) with intermittent high water tables on broad summits and slight depressions; may have shrink-swell clay in subsoil; developed in local colluvium and residuum from granitic rocks	Moderate 0.32, 0.28 B - C	FAIR intermittent high water table; concentrated runoff from higher areas; low bearing capacity **Bearing Capacity:** moderate - low **Shrink-swell Potential:** high	POOR intermittent high water table percs slow	PRIME CROPLAND	MODERATELY HIGH	IIe
23B Purcellville loam 2 – 7%	Very deep, well drained, strong brown fine-silty soils on undulating summits and gently sloping backslopes; developed in residuum from granite, schist and gneiss	Moderate 0.32, 0.28 B	GOOD **Bearing Capacity:** moderate **Shrink-swell Potential:** low	GOOD	PRIME CROPLAND	MODERATE	IIe
23C Purcellville loam 7 – 15%	Very deep, well drained, strong brown fine-silty soils on strongly sloping backslopes; developed in residuum from granite, schist and gneiss	Moderate 0.32, 0.28 B	GOOD **Bearing Capacity:** moderate **Shrink-swell Potential:** low	GOOD	SECONDARY CROPLAND	MODERATE	IIIe
23D3** Purcellville loam; gullied 15 – 25%	Very deep, well drained, strong brown fine-silty soils on moderately steep backslopes; developed in residuum from granite, schist and gneiss	High 0.32, 0.28 B	FAIR steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL Steep slopes	PRIME PASTURE	MODERATE	

*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR SELECTED USES GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
24B Edgemont-Culpeper complex 2 – 7%	Very deep, well drained, yellowish-brown loamy soils (Edgemont) and very deep, well drained, red clayey soils (Culpeper) on undulating summits and gently sloping backslopes; developed in residuum from meta-arkosic sandstone and meta-graywacke	Moderate 0.32, 0.28 – 0.37, 0.28 B - C	GOOD **Bearing Capacity:** low - moderate **Shrink-swell Potential:** low	MARGINAL percs slowly	PRIME CROPLAND	MODERATE	IIe
24C Edgemont loam 7 – 15%	Very deep, well drained, yellowish-brown loamy soils on rolling summits and strongly sloping backslopes; developed in residuum from meta-arkosic sandstone and meta-graywacke	Moderate 0.32, 0.28 B	GOOD **Bearing Capacity:** low - moderate **Shrink-swell Potential:** low	MARGINAL percs slowly	SECONDARY CROPLAND	MODERATE	IIIe
24D** Edgemont loam 15 – 25%	Very deep, well drained, yellowish-brown loamy soils on moderately steep backslopes; developed in residuum from meta-arkosic sandstone and meta-graywacke	High 0.32, 0.28 B	FAIR steep slopes **Bearing Capacity:** low - moderate **Shrink-swell Potential:** low	MARGINAL percs slowly steep slopes	SECONDARY CROPLAND	MODERATE	IVe
25B** Hazel – Edgemont complex 2- 7%	Moderately deep, excessively drained, yellowish-brown coarse-loamy soils (Hazel) and very deep, well drained, yellowish-brown loamy soils (Edgemont) on undulating summits and gently sloping backslopes; developed in residuum from arkosic sandstone and meta-graywacke	Moderate 0.32, 0.24 – 0.32, 0.28 C - B	FAIR shallow to rock **Bearing Capacity:** moderate - low **Shrink-swell Potential:** low	MARGINAL shallow to rock	SECONDARY CROPLAND	MODERATELY LOW	
25C Hazel – Edgemont complex; rocky 7- 15%	Moderately deep, excessively drained, yellowish-brown coarse-loamy soils (Hazel) and very deep, well drained, yellowish-brown loamy soils (Edgemont) on rolling summits and strongly sloping backslopes; 0.1 to 2% rock outcrop; developed in residuum from arkosic sandstone and meta-graywacke	Moderate 0.32, 0.24 – 0.32, 0.28 C - B	FAIR shallow to rock **Bearing Capacity:** moderate - low **Shrink-swell Potential:** low	MARGINAL shallow to rock	SECONDARY PASTURE	LOW	IIIe
25C3** Hazel – Edgemont complex; gullied 7- 15%	Moderately deep, excessively drained, yellowish-brown coarse-loamy soils (Hazel) and very deep, well drained, yellowish-brown loamy soils (Edgemont) on rolling summits and strongly sloping backslopes with gullies ; developed in residuum from arkosic sandstone and meta-graywacke	Moderate 0.32, 0.24 – 0.32, 0.28 C - B	POOR shallow to rock; gullies **Bearing Capacity:** moderate - low **Shrink-swell Potential:** low	POOR shallow to rock gullies	SECONDARY PASTURE	MODERATELY LOW	

*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
25D Hazel loam; rocky 15 - 25%	Moderately deep, excessively drained, yellowish-brown coarse-loamy soils on narrow summits and moderately steep backslopes; 0.1 to 2% rock outcrop; developed in residuum from arkosic sandstone and meta-graywacke	High 0.32, 0.24 C	POOR shallow to rock; steep slopes; rock outcrop **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock steep slopes rock outcrop	SECONDARY PASTURE	LOW	IVe
25D3** Hazel – Edgemont complex; gullied 15-25%	Moderately deep, excessively drained, yellowish-brown coarse-loamy soils (Hazel) and very deep, well drained, yellowish-brown loamy soils (Edgemont) on moderately steep backslopes with gullies; developed in residuum from arkosic sandstone and meta-graywacke	High 0.32, 0.24 – 0.32, 0.28 C - B	POOR steep slope; shallow to rock; gullies **Bearing Capacity:** moderate - low **Shrink-swell Potential:** low	POOR steep slope shallow to rock gullies	NOT SUITED	LOW	
25E Hazel loam; rocky 25 - 45%	Moderately deep, excessively drained, yellowish-brown coarse-loamy soils on steep backslopes, developed in residuum from arkosic sandstone and meta-graywacke	Very high 0.32, 0.24 C	VERY POOR steep slopes; shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED steep slopes shallow to rock	NOT SUITED	LOW	VIIe
26B** Culpeper fine sandy loam 2 – 7%	Very deep, well drained, red clayey soils on undulating summits; developed in residuum from meta-arkosic sandstone and meta-graywacke	Moderate 0.37, 0.28 C	GOOD **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL percs slowly	PRIME CROPLAND	MODERATE	
26C Culpeper fine sandy loam 7 – 15%	Very deep, well drained, red clayey soils on rolling summits and strongly sloping backslopes; developed in residuum from meta-arkosic sandstone and meta-graywacke	Moderate 0.37, 0.28 C	GOOD **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL percs slowly	SECONDARY CROPLAND	MODERATE	IIIe
27C3	**SEE MAP UNIT 26C**						
28B** Fauquier and Eubanks soils 2 - 7 %	Very deep, well drained, red clayey soils (Fauquier) and/or very deep, well drained, red loamy soils (Eubanks) on undulating summits and gently sloping backslopes; developed in residuum from sheared granite or granodiorite intruded by dikes of greenstone - - - **This map unit will predominantly consist of Fauquier and/or Eubanks soils**	Moderate 0.32, 0.28 – 0.32, 0.32 C - B	GOOD **Bearing Capacity:** moderate **Shrink-swell Potential:** moderate	MARGINAL percs slowly	PRIME CROPLAND	MODERATELY HIGH	

*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
28C Fauquier and Eubanks soils 7 - 15 %	Very deep, well drained, red clayey soils (Fauquier) and/or very deep, well drained, red loamy soils (Eubanks) on rolling summits and strongly sloping backslopes; developed in residuum from sheared granite or granodiorite intruded by dikes of greenstone - - - **This map unit will predominantly consist of Fauquier and/or Eubanks soils**	Moderate 0.32, 0.28 – 0.32, 0.32 C - B	GOOD **Bearing Capacity:** moderate **Shrink-swell Potential:** moderate	MARGINAL percs slowly	SECONDARY CROPLAND	MODERATELY HIGH	IIIe
28C3	**SEE MAP UNIT 28C**						
28D Fauquier and Eubanks soils 15 - 25%	Very deep, well drained, red clayey soils (Fauquier) and very deep, well drained, red loamy soils (Eubanks) on moderately steep backslopes; developed in residuum from sheared granite or granodiorite intruded by dikes of greenstone - - - **This map unit will predominantly consist of Fauquier and/or Eubanks soils**	High 0.32, 0.28 – 0.32, 0.32 C - B	FAIR steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** moderate	MARGINAL steep slopes percs slowly	PRIME PASTURE	MODERATELY HIGH	IVe
28D3	**SEE MAP UNIT 28D**						
29C	**SEE MAP UNIT 28C**						
29D	**SEE MAP UNIT 28D**						
30B** Edneytown – Chestnut complex; rocky 2 - 7%	Very deep, well drained, yellowish-brown loamy (Edneytown) soil and moderately deep, well drained dark brown (Chestnut) coarse-loamy soil on undulating summits and gently sloping backslopes in dissected landscapes; developed in residuum from coarse-textured granite and granite gneiss; 0.1 to 2 percent rock outcrop	Moderate 0.28, 0.24 – 0.24, 0.24 B	FAIR shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL shallow to rock	PRIME PASTURE	MODERATELY LOW	
30C Edneytown – Chestnut complex; rocky 7 - 15%	Very deep, well drained, yellowish-brown (Edneytown) loamy soil and moderately deep, well drained dark brown (Chestnut) coarse-loamy soil on rolling summits and strongly sloping backslopes in dissected landscapes; developed in residuum from coarse-textured granite and granite gneiss; 0.1 to 2 percent rock outcrop	Moderate 0.28, 0.24 – 0.24, 0.24 B	FAIR shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL shallow to rock	PRIME PASTURE	MODERATELY LOW	IVe
30D Edneytown – Chestnut complex; rocky 15 - 25%	Very deep, well drained, yellowish-brown (Edneytown) loamy soil and moderately deep, well drained dark brown (Chestnut) coarse-loamy soil on moderately steep backslopes in dissected landscapes; developed in residuum from coarse-textured granite and granite gneiss; 0.1 to 2 percent rock outcrop	High 0.28, 0.24 – 0.24, 0.24 B	FAIR shallow to rock; steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL shallow to rock steep slopes	SECONDARY PASTURE	MODERATELY LOW	VIe

*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
31B Purcellville – Tankerville complex 2 - 7%	Very deep, well drained, strong brown, fine-silty (Purcellville) and moderately deep, well drained, strong brown, coarse-loamy (Tankerville) soils on undulating summits and gently sloping backslopes; developed in residuum from granite, granite gneiss and granitic schist	Moderate 0.32, 0.28 – 0.32, 0.24 B - C	FAIR shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL shallow to rock	PRIME CROPLAND	MODERATELY LOW	IIe
31C Purcellville – Tankerville complex 7 - 15%	Very deep, well drained, strong brown, fine-silty (Purcellville) and moderately deep, well drained, strong brown, coarse-loamy (Tankerville) soils on strongly sloping backslopes; developed in residuum from granite, granite gneiss and granitic schist	Moderate 0,.32, 0.28 – 0.32, 0.24 B - C	FAIR shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL shallow to rock	SECONDARY CROPLAND	MODERATELY LOW	IIIe
31D	**SEE MAP UNIT 20D**						
33B** Brinklow silt loam 2 - 7%	Moderately deep, well drained, yellowish-red silty soils on gently sloping backslopes and convex undulating summits; developed in residuum from sericite and biotite schist; gneiss and phyllites.	Moderate 0.37, 0.32 B	FAIR shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock	SECONDARY CROPLAND	MODERATELY LOW	
33C** Brinklow silt loam 7 – 15%	Moderately deep, well drained, yellowish-red silty soils on strongly sloping sideslopes; developed in residuum from sericite and biotite schist; gneiss and phyllites.	Moderate 0.37, 0.32 B	FAIR shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock	SECONDARY CROPLAND	MODERATELY LOW	
33D Brinklow silt loam 15 - 25%	Moderately deep, well drained, yellowish-red silty soils on moderately steep backslopes; developed in residuum from sericite and biotite schist; gneiss and phyllites.	High 0.37, 0.32 B	POOR shallow to rock; steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock steep slopes	PRIME PASTURE	MODERATELY LOW	IVe
33E Brinklow silt loam 25 - 45%	Moderately deep, well drained, yellowish-red silty soils on steep backslopes; developed in residuum from sericite and biotite schist; gneiss and phyllites.	High 0.37, 0.32 B	VERY POOR shallow to rock; very steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED shallow to rock very steep slopes	SECONDARY PASTURE	LOW	VIIe

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MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
34B Yellowbottom loam 2 - 7%	Very deep, well drained, yellowish-red clayey soils on undulating summits and gently sloping backslopes; developed in residuum from sericite, biotite schist and meta-monzonite granite	Moderate 0.32, 0.28 B	GOOD **Bearing Capacity:** low **Shrink-swell Potential:** moderate	MARGINAL percs slowly	PRIME CROPLAND	MODERATE	IIe
34C Yellowbottom loam 7 - 15%	Very deep, well drained, yellowish-red clayey soils on strongly sloping backslopes; developed in residuum from sericite, biotite schist and meta-monzonite granite	Moderate 0.32, 0.28 B	GOOD **Bearing Capacity:** low **Shrink-swell Potential:** moderate	MARGINAL percs slowly	SECONDARY CROPLAND	MODERATE	IIIe
34D** Yellowbottom loam 15 – 25%	Very deep, well drained, yellowish-red clayey soils on moderately steep backslopes in dissected uplands; developed in residuum from sericite and biotite schist and gneiss	High 0.32, 0.28 B	FAIR steep slopes **Bearing Capacity:** low **Shrink-swell Potential:** moderate	MARGINAL percs slowly steep slopes	PRIME PASTURE	MODERATE	
35B Penhook silt loam 2 – 7%	Very deep, well drained, red clayey soils on undulating summits and gently sloping backslopes in dissected uplands; developed in residuum from sericite schist, phyllonite, and phyllite	Moderate 0.37, 0.32 B	GOOD **Bearing Capacity:** low **Shrink-swell Potential:** moderate	MARGINAL percs slowly	PRIME CROPLAND	MODERATE	IIe
35C Penhook silt loam 7 - 15%	Very deep, well drained, red clayey soils strongly sloping backslopes in dissected uplands; developed in residuum from sericite schist, phyllonite, and phyllite	Moderate 0.37, 0.32 B	GOOD **Bearing Capacity:** low **Shrink-swell Potential:** moderate	MARGINAL percs slowly	SECONDARY CROPLAND	MODERATE	IIIe
35D** Penhook silt loam 15 - 25%	Very deep, well drained, red clayey soils moderately steep backslopes in dissected uplands; developed in residuum from sericite schist, phyllonite, and phyllite	High 0.37, 0.32 B	FAIR steep slopes **Bearing Capacity:** low **Shrink-swell Potential:** moderate	MARGINAL percs slowly steep slopes	PRIME PASTURE	MODERATE	
36C3	**SEE MAP UNIT 35C**						

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MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
38A** Swampoodle loam 0 - 2%	Very deep, moderately well drained, brownish-yellow loamy soils with intermittent high water tables on broad summits and slight depressions; shrink-swell clays may occur in lower subsoil of some soil profiles; developed in local colluvium and residuum from granitic rocks; may have HYDRIC soil inclusions	Slight 0.32, 0.28 C	VERY POOR occasional ponding; intermittent high water table; concentrated runoff from higher areas; possible shrink-swell clays **Bearing Capacity:** low **Shrink-swell Potential:** high	POOR high water table	SECONDARY CROPLAND	MODERATELY HIGH	
38B Swampoodle loam 2 - 7%	Very deep, moderately well drained, mottled brownish-yellow and strong brown loamy soils with intermittent high water tables on broad summits and slight depressions; may have shrink-swell clay in subsoil; developed in local colluvium and residuum from granitic rocks; may have HYDRIC soil inclusions	Moderate 0.32, 0.28 C	VERY POOR intermittent high water table; possible shrink-swell clays **Bearing Capacity:** low **Shrink-swell Potential:** high	POOR high water table	SECONDARY CROPLAND	MODERATELY HIGH	IIe
40B** Myersville silt loam 2 - 7%	Deep, well drained, strong brown silty soils on undulating summits and gently sloping backslopes; developed in residuum from greenstone and chloritic schist	Moderate 0.37, 0.32 B	FAIR shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL shallow to rock	PRIME CROPLAND	MODERATELY HIGH	
40C Myersville silt loam 7 - 15%	Deep, well drained, strong brown silty soils on rolling summits and strongly sloping backslopes; developed in residuum from greenstone and chloritic schist	High 0.37, 0.32 B	FAIR shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL shallow to rock	SECONDARY CROPLAND	MODERATELY HIGH	IIIe
40D Myersville silt loam, stony 15 - 25%	Deep, well drained, strong brown silty soils on moderately steep backslopes; stones cover 0.02 – 0.1% of the soil surface; developed in residuum from greenstone and chloritic schist	High 0.37, 0.32 B	POOR steep slopes; shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR steep slopes shallow to rock	PRIME PASTURE	MODERATE	VIs
40E Pignut silt loam, stony 25 - 45 %	Moderately deep, well drained, strong brown silty soils on steep backslopes; with cobbles and stones ranging from .01 – 0.1% on the soil surface; developed in residuum from greenstone and chloritic schist	Very high 0.37, 0.32 C	VERY POOR very steep slopes; shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED very steep slopes shallow to rock	NOT SUITED	MODERATELY LOW	VIIe

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MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
41B**	Very deep, well drained, yellowish red silty soils (Alanthus) and moderately deep, well	Moderate	FAIR	MARGINAL	SECONDARY PASTURE	MODERATE	
Alanthus – Pignut complex; very stony	drained, strong brown silty soils (Pignut) on undulating summits and gently sloping	0.37, 0.32	shallow to rock; stoniness	shallow to rock			
2 - 7 %	backslopes; surface cover is represented by .05 – 4% stones, 0 – 4% cobbles and 0 – 0.1% rock outcrop; developed in residuum from greenstone	B - C	**Bearing Capacity:** moderate **Shrink-swell Potential:** low				
41C	Very deep, well drained, yellowish red silty soils (Alanthus) and moderately deep, well	Moderate	FAIR	MARGINAL	SECONDARY PASTURE	MODERATE	VIs
Alanthus – Pignut complex; very stony	drained, strong brown silty soils (Pignut) on strongly sloping backslopes; surface cover is	0.37, 0.32	shallow to rock; stoniness	shallow to rock			
7 - 15 %	represented by 0.1 – 3% stones, 0 – 3% cobbles and 0 – 0.01% rock outcrop; developed in residuum from greenstone	B - C	**Bearing Capacity:** moderate **Shrink-swell Potential:** low				
41D	Moderately deep, well drained, strong brown (Pignut) and very deep, well drained,	High	POOR	POOR	NOT SUITED	MODERATELY LOW	VIIs
Pignut – Alanthus complex, extremely stony	yellowish red (Alanthus) silty soils on moderately steep backslopes; surface cover is	0.37, 0.32	shallow to rock; steep slopes; stoniness	shallow to rock steep slopes			
15 - 25%	represented by 3 – 15% stones, 0 – 3% cobbles and 0 – 0.01% rock outcrop; developed in residuum from greenstone and chloritic schist	C - B	**Bearing Capacity:** moderate **Shrink-swell Potential:** low				
41E	Moderately deep, well drained, strong brown silty soils on steep backslopes; surface cover is	Very high	VERY POOR	NOT SUITED	NOT SUITED	MODERATELY LOW	VIIs
Pignut silt loam, extremely stony	represented by 3 – 15% stones, 0 – 3% cobbles and 0 – 0.01% rock outcrop; developed in residuum from greenstone and chloritic schist	0.37, 0.32	shallow to rock; very steep slopes; stoniness	very steep slopes shallow to rock			
25 - 45%		C	**Bearing Capacity:** moderate **Shrink-swell Potential:** low				
42C**	Moderately deep, well drained, strong brown silty soils and 10 – 25 % rock outcrop on	Moderate	POOR	NOT SUITED	SECONDARY PASTURE	MODERATELY LOW	
Pignut - Rock Outcrop complex	strongly sloping backslopes; surface cover is represented by 1 – 15% cobbles, 3 – 25% stones, and 0 – 20% boulders; developed in residuum from greenstone and chloritic schist	0.37, 0.32	rock outcrops **Bearing Capacity:** moderate	rock outcrops			
7 - 15%		C	**Shrink-swell Potential:** low				
42D	Moderately deep, well drained, strong brown silty soils and 15 – 25 % rock outcrop on	High	POOR	NOT SUITED	SECONDARY PASTURE	MODERATELY LOW	VIIs
Pignut - Rock Outcrop complex	moderately steep backslopes; surface cover is represented by 0 – 15% cobbles, 3 – 25% stones, and 0 – 20% boulders; developed in residuum from greenstone and chloritic schist	0.37, 0.32	steep slopes; rock outcrops **Bearing Capacity:** moderate	steep slopes rock outcrops			
15 - 25%		C	**Shrink-swell Potential:** low				

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MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
42E Pignut - Rock Outcrop complex 25 - 45%	Moderately deep, well drained, strong brown silty soils and 15 – 25 % rock outcrop on steep backslopes; surface cover is represented by 0 – 15% cobbles, 3 – 25% stones, and 0 – 20% boulders; developed in residuum from greenstone and chloritic schist	Very High 0.37, 0.32 C	VERY POOR very steep slopes; rock outcrops **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED very steep slopes rock outcrops	NOT SUITED	MODERATELY LOW	VIIs
43B** Alanthus silt loam 2 – 7%	Very deep, well drained, yellowish-red silty soils on undulating summits and gently sloping backslopes; developed in residuum from greenstone and chloritic schist	Moderate 0.37, 0.32 B	GOOD **Bearing Capacity:** moderate **Shrink-swell Potential:** low	GOOD	PRIME CROPLAND	HIGH	
43C Alanthus silt loam 7 - 15%	Very deep, well drained, yellowish-red silty soils on strongly sloping backslopes; developed in residuum from greenstone and chloritic schist	High 0.37, 0.32 B	GOOD **Bearing Capacity:** moderate **Shrink-swell Potential:** low	GOOD	SECONDARY CROPLAND	HIGH	IIIe
43D	**SEE MAP UNIT 40D**						
44B3	**SEE MAP UNIT 45B**						
44C3	**SEE MAP UNIT 45C**						
44D3	**SEE MAP UNIT 45D**						
45B Fauquier silt loam 2 - 7%	Very deep, well drained, red clayey soils on undulating summits and gently sloping backslopes; developed in residuum from massive greenstone and chloritic schist	Moderate 0.32, 0.28 c	GOOD **Bearing Capacity:** moderate **Shrink-swell Potential:** moderate	MARGINAL percs slowly	PRIME CROPLAND	HIGH	IIe
45C Fauquier silt loam 7 - 15%	Very deep, well drained, red clayey soils on strongly sloping backslopes; developed in residuum from massive greenstone and chloritic schist	High 0.32, 0.28 B	GOOD **Bearing Capacity:** moderate **Shrink-swell Potential:** moderate	MARGINAL percs slowly	SECONDARY CROPLAND	MODERATELY HIGH	IIIe
45D Fauquier silt loam 15-25 %	Very deep, well drained, red clayey soils on moderately steep backslopes; developed in residuum from massive greenstone and chloritic schist	Very high 0.32, 0.28 B	FAIR steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** moderate	MARGINAL steep slopes percs slowly	PRIME PASTURE	MODERATELY HIGH	IVe
46C	**SEE MAP UNIT 41C**						

*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
47B Elioak - Fauquier complex 2 - 7%	Complex of very deep, well drained, micaceous, dark red clayey (Elioak) and red clayey (Fauquier) soils on undulating summits and gently sloping backslopes; developed in residuum from micaceous acid crystalline rock and chloritic schist	Moderate 0.32, 0.28 C	GOOD **Bearing Capacity:** low - moderate **Shrink-swell Potential:** moderate	MARGINAL Percs slow	PRIME CROPLAND	MODERATELY HIGH	IIe
47C Elioak - Fauquier complex 7 - 15%	Complex of very deep, well drained, micaceous, dark red clayey (Elioak) and red clayey (Fauquier) soils on rolling summits and strongly sloping backslopes; developed in residuum from micaceous acid crystalline rock and chloritic schist	High 0.32, 0.28 C	GOOD **Bearing Capacity:** low - moderate **Shrink-swell Potential:** moderate	MARGINAL Percs slow	SECONDARY CROPLAND	MODERATELY HIGH	IIIe
47D** Elioak - Fauquier complex 15 - 25%	Complex of very deep, well drained, micaceous, yellowish-red clayey (Elioak) soils and red clayey (Fauquier) soils on moderately steep backslopes; developed in residuum from micaceous acid rocks (Elioak) and inclusions containing bands and stringers of greenstone (Fauquier)	High 0.32, 0.28 C	FAIR steep slopes **Bearing Capacity:** low - moderate **Shrink-swell Potential:** moderate	MARGINAL percs slow steep slopes	PRIME PASTURE	MODERATELY HIGH	
48A** Fletcherville – Myersville complex 0 - 2 %	Complex of deep, moderately well drained, light yellowish-brown clay (Fletcherville) and deep, well drained, strong brown silty (Myersville) soils in saddles and heads of drainageways; developed in residuum from greenstone schist	Moderate 0.32, 0.28 – 0.37, 0.32 D - B	POOR intermittent high water table and high shrink-swell clays occur locally **Bearing Capacity:** low - moderate **Shrink-swell Potential:** high	POOR high water table	PRIME CROPLAND	MODERATELY HIGH	
48B Fletcherville – Myersville complex 2 - 7 %	Complex of deep, moderately well drained, light yellowish-brown clay (Fletcherville) and deep, well drained, strong brown silty (Myersville) soils in saddles and heads of drainageways; developed in residuum from greenstone schist	Moderate 0.32, 0.28 – 0.37, 0.32 D - B	POOR intermittent high water table and high shrink-swell clays occur locally **Bearing Capacity:** low - moderate **Shrink-swell Potential:** high	POOR high water table	PRIME CROPLAND	MODERATELY HIGH	IIe
48C** Myersville - Fletcherville complex 7 - 15 %	Complex of deep, well drained, strong brown silty (Myersville) and deep, moderately well drained, light yellowish-brown clay (Fletcherville) soils on strongly sloping backslopes; developed in residuum from greenstone schist	High 0.37, 0.32 – 0.32, 0.28 B - D	POOR intermittent high water table and high shrink-swell clays occur locally **Bearing Capacity:** moderate - low **Shrink-swell Potential:** high	POOR high water table	SECONDARY CROPLAND	MODERATELY HIGH	
49C	**SEE MAP UNIT 47C**						
49C3	**SEE MAP UNIT 47C**						

*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
50A** Goldvein fine gravely silt loam 0 - 2%	Very deep, moderately well drained, yellowish-brown loamy fragipan soil on broad, nearly level summits; developed in residuum from quartz monzonite and granite pegmatite	Slight 0.28, 0.28 C	FAIR intermittent high water table **Bearing Capacity:** moderate **Shrink-swell Potential:** moderate	POOR high water table fragipan	PRIME PASTURE	MODERATELY LOW	IIe
50B Goldvein fine gravely silt loam 2 - 7%	Very deep, moderately well drained, yellowish-brown loamy fragipan soil on broad, undulating summits and gently sloping backslopes; developed in residuum from quartz monzonite and granite pegmatite	Slight 0.28, 0.28 C	FAIR intermittent high water table **Bearing Capacity:** moderate **Shrink-swell Potential:** moderate	POOR high water table fragipan	PRIME PASTURE	MODERATELY LOW	IIIe
50C Goldvein fine gravely silt loam 7 - 15%	Very deep, moderately well drained, yellowish-brown loamy fragipan soil on strongly sloping backslopes; developed in residuum from quartz monzonite and granite pegmatite	Moderate 0.28, 0.28 C	FAIR intermittent high water table **Bearing Capacity:** moderate **Shrink-swell Potential:** moderate	POOR intermittent high water table fragipan	PRIME PASTURE	LOW	IVe
51D Stumptown-Rock Outcrop complex 15 - 25%	Moderately deep, well drained, strong brown loamy soils containing more than 35% rock fragments and 10 – 20 % rock outcrop on hilly summits and moderately steep backslopes; soil surface is covered with 0 – 15 % flagstones and/or boulders; developed from local creep and residuum from interbedded quartzite, quartz muscovite schist and phyllite	High 0.20, 0.10 B	VERY POOR steep slopes; shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED shallow to rock steep slopes rock outcrop	SECONDARY PASTURE	LOW	VIs
51E Stumptown-Rock Outcrop complex 25 - 45%	Moderately deep, well drained, strong brown loamy soils containing more than 35% rock fragments and 10 – 20 % rock outcrop on steep backslopes; soil surface is covered with 0 – 15 % flagstones and/or boulders; developed from local creep and residuum from interbedded quartzite, quartz muscovite schist and phyllite	Very High 0.20, 0.10 B	VERY POOR very steep slopes; shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED shallow to rock very steep slopes rock outcrop	NOT SUITED	LOW	VIIe
52C	**SEE MAP UNIT 53C**						
52D	**SEE MAP UNIT 53D**						
52D2	**SEE MAP UNIT 53D**						
53B** Glenelg loam 2 - 7%	Very deep, well drained, micaceous, dark brown loamy soils on undulating summits and gently sloping backslopes; developed in residuum from micaceous acid crystalline rock	Moderate 0.32, 0.43 B	GOOD high mica content in substratum may interfere with compaction **Bearing Capacity:** moderate **Shrink-swell Potential:** low	GOOD	PRIME CROPLAND	MODERATE	

*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
53C Glenelg loam 7 - 15%	Very deep, well drained, micaceous, dark brown loamy soils on rolling summits and strongly sloping backslopes; developed in residuum from micaceous acid crystalline rock	High 0.32, 0.43 B	GOOD high mica content in substratum may interfere with compaction **Bearing Capacity:** moderate **Shrink-swell Potential:** low	GOOD	SECONDARY CROPLAND	MODERATE	IIIe
53D Glenelg loam 15 - 25%	Very deep, well drained, micaceous, yellowish-red loamy soils on moderately steep backslopes in dissected uplands; developed in residuum from mica schist and mica gneiss	Very high 0.32, 0.43 B	FAIR high mica content in substratum may interfere with compaction; steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL Steep slopes	PRIME PASTURE	MODERATE	IVe
53E	**SEE MAP UNIT 33E**						
53E3	**SEE MAP UNIT 33E**						
54B	**SEE MAP UNIT 55B**						
54C	**SEE MAP UNIT 55C**						
55B Elioak loam 2 - 7%	Very deep, well drained, micaceous, dark red clayey soils on broad summits and gently sloping backslopes; developed in residuum from micaceous acid crystalline rocks	Moderate 0.32, 0.32 C	GOOD high mica content in substratum may interfere with compaction **Bearing Capacity:** low **Shrink-swell Potential:** moderate	GOOD	PRIME CROPLAND	MODERATE	IIe
55C Elioak loam 7 - 15%	Very deep, well drained, micaceous, dark red clayey soils on rolling summits and strongly sloping backslopes; developed in residuum from micaceous acid crystalline rocks	High 0.32, 0.32 C	GOOD high mica content in substratum may interfere with compaction **Bearing Capacity:** low **Shrink-swell Potential:** moderate	GOOD	SECONDARY CROPLAND	MODERATE	IIIe
55C3	**SEE MAP UNIT 55C**						
55D	**SEE MAP UNIT 33D**						
55D3	**SEE MAP UNIT 33D**						

*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
56B** Cardova silt loam 2 - 7%	Moderately deep, somewhat excessively drained, olive gray silty soils on undulating summits and gently sloping backslopes; developed in residuum from black graphitic schist	Moderate 0.37, 0.32 C	FAIR shallow to rock; high silt content (low bearing capacity); high corrosivity to steel and concrete **Bearing Capacity:** low **Shrink-swell Potential:** low	MARGINAL shallow to rock	SECONDARY CROPLAND	LOW	
56C** Cardova silt loam 7-15%	Moderately deep, somewhat excessively drained, olive gray silty soils on rolling summits and strongly sloping backslopes; developed in residuum from black graphitic schist	High 0.37, 0.32 C	FAIR shallow to rock; high silt content (low bearing capacity); high corrosivity to steel and concrete **Bearing Capacity:** low **Shrink-swell Potential:** low	POOR shallow to rock	SECONDARY CROPLAND	LOW	
56D Cardova silt loam 15 - 25%	Moderately deep, somewhat excessively drained, olive gray silty soils on hilly summits and moderately steep backslopes; developed in residuum from black graphitic schist	Very High 0.37, 0.32 C	POOR shallow to rock; steep slopes; high silt content (low bearing capacity); high corrosivity to steel and concrete **Bearing Capacity:** low **Shrink-swell Potential:** low	POOR shallow to rock steep slopes	PRIME PASTURE	LOW	IVe
56E** Cardova silt loam 25-45%	Moderately deep, somewhat excessively drained, olive gray silty soils on steep backslopes; developed in residuum from black graphitic schist	Very high 0.37, 0.32 C	VERY POOR shallow to rock; very steep slopes; high silt content (low bearing capacity); high corrosivity to steel and concrete **Bearing Capacity:** low **Shrink-swell Potential:** low	NOT SUITED shallow to rock very steep slopes	SECONDARY PASTURE	LOW	

*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
56F**	Moderately deep, somewhat excessively drained, olive gray silty soils on very steep	Very high	VERY POOR	NOT SUITED	NOT SUITED	LOW	
Cardova silt loam	backslopes; developed in residuum from black graphitic schist	0.37, 0.32	shallow to rock; very steep slopes; high silt content (low bearing capacity); high corrosivity to steel and concrete **Bearing Capacity:** low **Shrink-swell Potential:** low	shallow to rock very steep slopes			
45 - 65%		C					
57B	**SEE MAP UNIT 55B**						
57C	**SEE MAP UNIT 55C**						
58B	**SEE MAP UNIT 53C**						
58C	**SEE MAP UNIT 53C**						
58D	**SEE MAP UNIT 53D**						
58E	**SEE MAP UNIT 33E**						
59B**	Very deep, somewhat poorly drained, yellowish brown loamy soils with high water	Moderate	VERY POOR	NOT SUITED	NOT SUITED	MODERATELY LOW	
Mongle loam, rubbly	tables in concave landscapes, along small drainageways and on alluvial fans; developed	0.37, 0.37	frequent flooding; high water table; concentrated runoff from higher	high water table			
2 - 7%	in recent colluvium/alluvium washed from basic and acidic rocks; 15 – 50 % cobbles, stones and/or boulders cover the soil surface; may have HYDRIC soil inclusions	C	areas; overland flow-significant destructive potential during storm events **Bearing Capacity:** low **Shrink-swell Potential:** moderate				
59C	Very deep, somewhat poorly drained, yellowish brown loamy soils with high water	Moderate	VERY POOR	NOT SUITED	NOT SUITED	MODERATELY LOW	VIIs
Mongle loam, rubbly	tables in concave landscapes, along small drainageways and on alluvial fans; developed	0.37, 0.37	frequent flooding; high water table; concentrated runoff from higher	high water table			
7 - 15%	in recent colluvium/alluvium washed from basic and acidic rocks; 15 – 50 % cobbles, stones and/or boulders cover the soil surface; may have HYDRIC soil inclusions	C	areas; overland flow-significant destructive potential during storm events **Bearing Capacity:** low **Shrink-swell Potential:** moderate				
60A**	Complex of moderately deep, well drained, loamy, dark yellowish brown (Ott) soil and	Slight	FAIR	NOT SUITED	SECONDARY CROPLAND	LOW	
Ott-Catlett complex	shallow, well drained, loamy-skeletal, dark gray (Catlett) soils containing more than 35%	0.37, 0.32 – 0.20, 0.15	shallow to rock **Bearing Capacity:** moderate	shallow to rock			
0 - 2%	rock fragments on nearly level summits and backslopes; developed in residuum from bluish-gray thermally altered Triassic shale	C – D	**Shrink-swell Potential:** low				

*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR SELECTED USES GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
60B Ott-Catlett complex 2 - 7%	Complex of moderately deep, well drained, loamy, dark yellowish brown (Ott) soil and shallow, well drained, loamy-skeletal, dark gray (Catlett) soils containing more than 35% rock fragments on undulating summits and gently sloping backslopes; developed in residuum from bluish-gray thermally altered Triassic shale	Moderate 0.37, 0.32 – 0.20, 0.15 C – D	FAIR shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED shallow to rock	SECONDARY CROPLAND	LOW	IIIe
60C Ott-Catlett complex 7 - 15%	Complex of moderately deep, well drained, loamy, dark yellowish brown (Ott) soil and shallow, well drained, loamy-skeletal, dark gray (Catlett) soils containing more than 35% rock fragments on strongly sloping backslopes; developed in residuum from bluish-gray thermally altered Triassic shale	High 0.37, 0.32 – 0.20, 0.15 C – D	FAIR shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED shallow to rock	PRIME PASTURE	LOW	IVs
60D** Catlett gravelly silt loam 15 - 25%	Shallow, well drained, grayish-brown loamy-skeletal soils containing more than 35% rock fragments on moderately steep backslopes; developed in residuum from bluish-gray thermally altered Triassic shale	High 0.20, 0.15 D	POOR shallow soils over bedrock, steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED shallow to rock steep slopes	SECONDARY PASTURE	LOW	
61A** Brecknock silt loam 0 - 2%	Deep, well drained, dark yellowish brown silty soils on nearly level summits and backslopes; developed in residuum from bluish-gray thermally altered Triassic shale and siltstone	Slight 0.32, 0.32 B	GOOD low bearing capacity when wet (high silt content) **Bearing Capacity:** low **Shrink-swell Potential:** low	MARGINAL percs slowly	PRIME CROPLAND	MODERATE	
61B** Brecknock silt loam 2 - 7%	Deep, well drained, dark yellowish brown silty soils on undulating summits and gently sloping backslopes; developed in residuum from bluish-gray thermally altered Triassic shale and siltstone	Moderate 0.32, 0.32 B	GOOD low bearing capacity when wet (high silt content) **Bearing Capacity:** low **Shrink-swell Potential:** low	MARGINAL percs slowly	PRIME CROPLAND	MODERATE	
61C** Brecknock silt loam 7 - 15%	Deep, well drained, dark yellowish brown silty soils on rolling summits and strongly sloping backslopes; developed in residuum from bluish-gray thermally altered Triassic shale and siltstone	High 0.32, 0.32 B	GOOD low bearing capacity when wet (high silt content) **Bearing Capacity:** low **Shrink-swell Potential:** low	MARGINAL percs slowly	PRIME CROPLAND	MODERATE	

*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
62A** Sycoline silt loam 0 - 2%	Moderately deep, moderately well to somewhat poorly drained, brown silty soils with intermittent high water tables on nearly level summits and backslopes; developed in residuum from bluish-gray thermally altered Triassic shale and siltstone; may have HYDRIC soil inclusions	Slight 0.43, 0.43 D	POOR intermittent high water table; low bearing capacities when wet; shallow to rock **Bearing Capacity:** low **Shrink-swell Potential:** low	NOT SUITED high water table	SECONDARY CROPLAND	MODERATELY LOW	
62B Sycoline silt loam 2 - 7%	Moderately deep, moderately well to somewhat poorly drained, brown silty soils with intermittent high water tables on undulating summits and gently sloping backslopes; developed in residuum from bluish-gray thermally altered Triassic shale and siltstone; may have HYDRIC soil inclusions	Moderate 0.43, 0.43 D	POOR intermittent high water table; low bearing capacities when wet; shallow to rock **Bearing Capacity:** low **Shrink-swell Potential:** low	NOT SUITED high water table	SECONDARY CROPLAND	MODERATELY LOW	IIw
63A Kelly silt loam 0 - 2%	Deep, somewhat poorly drained, yellowish-brown clay pan soils with intermittent high water tables on broad upland flats and concave areas; developed in old alluvial capping underlain by residuum from thermally-altered Triassic shale and granulite; may have HYDRIC soil inclusions	Slight 0.37, 0.28 D	VERY POOR high shrink-swell clay layers in the subsoil; high water table; low relief **Bearing Capacity:** low **Shrink-swell Potential:** very high	NOT SUITED high water table	SECONDARY PASTURE	MODERATELY LOW	IVw
63B** Kelly Variant silt loam 2 - 7%	Moderately deep, somewhat poorly drained, yellowish-brown clay pan soils with intermittent high water tables on broad upland flats and concave areas; developed in old alluvial capping underlain by residuum from thermally-altered Triassic shale and granulite; may have HYDRIC soil inclusions	Moderate 0.37, 0.28 D	VERY POOR high shrink-swell clay layers in the subsoil; high water table; low relief **Bearing Capacity:** low **Shrink-swell Potential:** very high	NOT SUITED high water table	SECONDARY PASTURE	MODERATELY LOW	
63C** Kelly Variant silt loam 7 - 15%	Moderately deep, somewhat poorly drained, yellowish-brown clay pan soils with intermittent high water tables in saddles and heads of drainageways; developed in old alluvial capping underlain by residuum from thermally-altered Triassic shale and granulite; may have HYDRIC soil inclusions	High 0.37, 0.28 D	VERY POOR high shrink-swell clay layers in the subsoil; high water table **Bearing Capacity:** low **Shrink-swell Potential:** very high	NOT SUITED high water table	SECONDARY PASTURE	MODERATELY LOW	

*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
64B Oakhill - Legore loams 2 - 7%	Complex of well drained, moderately deep, yellowish-red, loamy skeletal (Oakhill) containing more than 35% rock fragments in the subsoil and very deep, yellowish-red loamy (Legore) soils on broad summits; developed in residuum from basalt	Moderate 0.32, 0.28 B	FAIR shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL shallow to rock	SECONDARY CROPLAND	MODERATE	IIIs
64C Oakhill loam 7 - 15%	Moderately deep, well drained, yellowish-red loamy-skeletal soils containing more than 35% rock fragments in the subsoil on strongly sloping backslopes; developed in residuum from basalt	Moderate 0.32, 0.28 B	FAIR shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock	PRIME PASTURE	MODERATE	IVe
64D Oakhill loam, stony 15 - 25%	Moderately deep, well drained, yellowish-red loamy-skeletal soils containing more than 35% rock fragments in the subsoil on moderately steep backslopes; stones and cobbles cover 0.01 – 0.1% of the soil surface; developed in residuum from basalt	High 0.32, 0.28 B	POOR shallow to rock; steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock steep slopes	SECONDARY PASTURE	MODERATELY LOW	VIs
64E** Oakhill loam, stony 25 - 45%	Moderately deep, well drained, yellowish-red loamy-skeletal soils containing more than 35% rock fragments in the subsoil on steep backslopes; stones and cobbles cover 0.01 – 0.1% of the soil surface; developed in residuum from basalt	High 0.32, 0.28 B	VERY POOR shallow to rock; very steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED shallow to rock very steep slopes	SECONDARY PASTURE	MODERATELY LOW	
65A** Montalto loam 0- 2%	Very deep, well drained, red clayey soils on nearly level summits and backslopes; developed in residuum from diabase and basalt	Moderate 0.28, 0.28 C	GOOD **Bearing Capacity:** low **Shrink-swell Potential:** moderate	MARGINAL percs slowly	PRIME CROPLAND	MODERATELY HIGH	
65B** Montalto loam 2- 7%	Very deep, well drained, red clayey soils on undulating summits and gently sloping backslopes; developed in residuum from diabase and basalt	Moderate 0.28, 0.28 C	GOOD **Bearing Capacity:** low **Shrink-swell Potential:** moderate	MARGINAL percs slowly	PRIME CROPLAND	MODERATELY HIGH	
65C Montalto loam 7- 15%	Very deep, well drained, red clayey soils on rolling summits and strongly sloping backslopes; developed in residuum from diabase and basalt	Moderate 0.28, 0.28 C	GOOD **Bearing Capacity:** low **Shrink-swell Potential:** moderate	MARGINAL percs slowly	SECONDARY CROPLAND	MODERATELY HIGH	IIIe

*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
65C2	**SEE MAP UNIT 65C**						
66A Waxpool silt loam 0 - 2%	Very deep, poorly drained, light olive brown clay pan soils with intermittent high water tables on broad nearly level summits; developed in residuum from diabase and basalt; HYDRIC SOIL	Slight 0.43, 0.15 D	VERY POOR frequent ponding; extremely plastic shrink-swell clay pan in the subsoil; high water table; low relief **Bearing Capacity:** low **Shrink-swell Potential:** very high	NOT SUITED high water table	SECONDARY PASTURE	LOW	IVw
67A** Jackland and Haymarket silt loams 0 - 2%	Very deep, moderately well drained, yellowish brown to olive brown clay pan soils with intermittent high water tables (Jackland) and/or very deep, well drained dark brown clay pan soils (Haymarket) on nearly level summits and backslopes; developed in residuum from diabase and basalt; may have HYDRIC soil inclusions - - - **This map unit will predominantly consist of Jackland and/or Haymarket soils**	Slight 0.32, 0.10 – 0.37, 0.10 D	VERY POOR extremely plastic shrink-swell clay pan in the subsoil; intermittent high water table **Bearing Capacity:** low **Shrink-swell Potential:** very high	NOT SUITED high water table	SECONDARY CROPLAND	MODERATE	
67B Jackland and Haymarket silt loams 2 - 7%	Very deep, moderately well drained, yellowish brown to olive brown clay pan soils with intermittent high water tables (Jackland) and/or very deep, well drained dark brown clay pan soils (Haymarket) on undulating summits and gently sloping backslopes; developed in residuum from diabase and basalt; may have HYDRIC soil inclusions - - - **This map unit will predominantly consist of Jackland and/or Haymarket soils**	Moderate 0.32, 0.10 – 0.37, 0.10 D	VERY POOR extremely plastic shrink-swell clay pan in the subsoil; intermittent high water table **Bearing Capacity:** low **Shrink-swell Potential:** very high	NOT SUITED high water table	SECONDARY CROPLAND	MODERATE	IIe
67C Jackland and Haymarket silt loams 7 - 15%	Very deep, moderately well drained, yellowish brown to olive brown clay pan soils with intermittent high water tables (Jackland) and/or very deep, well drained dark brown clay pan soils (Haymarket) on strongly sloping backslopes; developed in residuum from diabase and basalt - - - **This map unit will predominantly consist of Jackland and/or Haymarket soils**	High 0.32, 0.10 – 0.37, 0.10 D	VERY POOR extremely plastic shrink-swell clay pan in the subsoil; intermittent high water table **Bearing Capacity:** low **Shrink-swell Potential:** very high	NOT SUITED high water table	PRIME PASTURE	MODERATE	IIIe

*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
68B Jackland and Haymarket silt loams, very stony 2 - 7%	Very deep, moderately well drained, yellowish brown to olive brown clay pan soils with intermittent high water tables (Jackland) and/or very deep, well drained dark brown clay pan soils (Haymarket) on undulating summits and gently sloping backslopes; soil surface is covered by 0.2 – 4% stones and 0 – 0.05 boulders; developed in residuum from diabase and basalt; may have HYDRIC soil inclusions - - - **This map unit will predominantly consist of Jackland and/or Haymarket soils**	Moderate 0.32, 0.10 – 0.37, 0.10 D	VERY POOR extremely plastic shrink-swell clay pan in the subsoil; intermittent high water table; large amount of stones and boulders on the surface **Bearing Capacity:** low **Shrink-swell Potential:** very high	NOT SUITED high water table stone content	SECONDARY PASTURE	MODERATE LY LOW	VIs
68C Jackland and Haymarket silt loams, very stony 7 -15%	Very deep, moderately well drained, yellowish brown to olive brown clay pan soils with intermittent high water tables (Jackland) and/or very deep, well drained dark brown clay pan soils (Haymarket) on strongly sloping backslopes; soil surface is covered by 0.2 – 4% stones and 0 – 0.05 boulders; developed in residuum from diabase and basalt - - - **This map unit will predominantly contain Jackland and/or Haymarket soils**	Moderate 0.32, 0.10 – 0.37, 0.10 D	VERY POOR extremely plastic shrink-swell clay pan in the subsoil; intermittent high water table; large amount of stones and boulders on the surface **Bearing Capacity:** low **Shrink-swell Potential:** very high	NOT SUITED high water table stone content	SECONDARY PASTURE	MODERATELY LOW	VIIs
69A Elbert silt loam 0 - 2%	Deep, poorly drained, dark gray clay pan soils in drainageways; formed in alluvium and residuum from diabase and basalt; HYDRIC SOIL	Slight 0.43, 0.24 D	VERY POOR frequent flooding; occasional ponding; concentrated runoff from higher areas; high shrink-swell clays; high water table; low relief **Bearing Capacity:** low **Shrink-swell Potential:** very high	NOT SUITED high water table	SECONDARY PASTURE	LOW	Vw
70A Mt. Lucas loam 0 - 2%	Deep, somewhat poorly drained, yellowish-brown loamy over clayey soils on nearly level summits and footslopes; developed in colluvium over residuum from basalt and diabase; may have HYDRIC soil inclusions	Slight 0.32, 0.28 C	POOR high water table; shrink-swell clay may occur in lower subsoil **Bearing Capacity:** low **Shrink-swell Potential:** high	NOT SUITED high water table	PRIME PASTURE	MODERATE	IVw
70B	**SEE MAP UNIT 70A**						

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71A**	Deep, well drained, reddish-brown silty soils on nearly level summits; developed in	Slight	GOOD	MARGINAL	PRIME CROPLAND	MODERATE	
Panorama silt loam	residuum from red Triassic shale, siltstone and fine-grained sandstone	0.37, 0.32	low bearing capacity when wet (high silt content)	percs slowly			
0 - 2%		B	**Bearing Capacity:** low **Shrink-swell Potential:** low				
71B	Deep, well drained, reddish-brown silty soils on undulating summits and gently sloping	Moderate	GOOD	MARGINAL	PRIME CROPLAND	MODERATE	IIe
Panorama silt loam	backslopes; developed in residuum from red Triassic shale, siltstone and fine-grained	0.37, 0.32	low bearing capacity when wet (high silt content)	percs slowly			
2 - 7%	sandstone	B	**Bearing Capacity:** low **Shrink-swell Potential:** low				
71C**	Deep, well drained, dark reddish-brown silty soils rolling summits and strongly sloping	Moderate	GOOD	MARGINAL	SECONDARY CROPLAND	MODERATE	
Panorama silt loam	backslopes; developed in residuum from red Triassic shale and sandstone	0.37, 0.32	low bearing capacity when wet (high silt content)	percs slowly			
7 - 15%		B	**Bearing Capacity:** low **Shrink-swell Potential:** low				
72C	**SEE MAP UNIT 76C**						
73A**	Moderately deep, well drained, red silty soils on nearly level summits, developed in	Slight	GOOD	POOR	SECONDARY CROPLAND	MODERATELY LOW	
Penn loam	residuum from Triassic shale, siltstone and fine-grained sandstone	0.32, 0.24	**Bearing Capacity:** moderate	shallow to rock			
0 - 2%		C	**Shrink-swell Potential:** low				
73B	Moderately deep, well drained, red silty soils on undulating summits and gently sloping	Moderate	GOOD	POOR	SECONDARY CROPLAND	MODERATELY LOW	IIe
Penn loam	backslopes, developed in residuum from Triassic shale, siltstone and fine-grained	0.32, 0.24	**Bearing Capacity:** moderate	shallow to rock			
2 - 7%	sandstone	C	**Shrink-swell Potential:** low				
73C	Moderately deep, well drained, red silty soils on strongly sloping backslopes, developed in	High	GOOD	POOR	SECONDARY CROPLAND	MODERATELY LOW	IIIe
Penn loam	residuum from Triassic shale, siltstone and fine-grained sandstone	0.32, 0.24	**Bearing Capacity:** low	shallow to rock			
7 - 15%		C	**Shrink-swell Potential:** moderate				

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73D**	Moderately deep, well drained, red silty soils on moderately steep backslopes, developed in	Very High	FAIR	POOR	PRIME PASTURE	MODERATELY LOW	
Penn loam	residuum from Triassic shale, siltstone and fine-grained sandstone	0.32, 0.24	steep slopes **Bearing Capacity:** moderate	shallow to rock steep slopes			
15 – 25%		C	**Shrink-swell Potential:** low				
74A**	Moderately deep, moderately well drained, strong brown silty soils with intermittent high	Slight	FAIR	POOR	SECONDARY CROPLAND	MODERATELY LOW	
Ashburn silt loam	water tables on broad, nearly level upland flats; developed from thin fluvial capping over	0.37, 0.24	intermittent high water table; low bearing capacity when wet due to	shallow to rock water table			
0 - 2%	Triassic siltstone, fine grained sandstone and shale	C	high silt content and/or shrink-swell clay in lower horizon **Bearing Capacity:** low **Shrink-swell Potential:** moderate				
74B	Moderately deep, moderately well drained, strong brown silty soils with intermittent high	Moderate	FAIR	POOR	SECONDARY CROPLAND	MODERATELY LOW	IIe
Ashburn silt loam	water tables on broad undulating summits and gently sloping backslopes; developed from	0.37, 0.24	intermittent high water table ; low bearing capacity when wet	shallow to rock water table			
2 - 7%	thin fluvial capping over Triassic siltstone, fine grained sandstone and shale	C	**Bearing Capacity:** low **Shrink-swell Potential:** moderate				
75A**	Very deep, well drained, dark-red and reddish-yellow clayey soils on nearly level summits;	Slight	GOOD	MARGINAL	PRIME CROPLAND	MODERATE	
Clover loam	developed in residuum from Triassic conglomerate, siltstone and shale	0.32, 0.28	**Bearing Capacity:** moderate	percs slowly			
0 - 2%		B	**Shrink-swell Potential:** moderate				
75B	Very deep, well drained, dark-red and reddish yellow clayey soils on broad, undulating	Moderate	GOOD	MARGINAL	PRIME CROPLAND	MODERATE	IIe
Clover loam	summits; developed in residuum from Triassic conglomerate, shale and siltstone	0.32, 0.28	**Bearing Capacity:** moderate	percs slowly			
2 - 7%		B	**Shrink-swell Potential:** moderate				
75C	Very deep, well drained, dark-red and reddish yellow clayey soils on strongly sloping	High	GOOD	MARGINAL	SECONDARY CROPLAND	MODERATE	IIIe
Clover loam	backslopes; developed in residuum from Triassic conglomerate, shale and siltstone	0.32, 0.28	**Bearing Capacity:** moderate	percs slowly			
7 - 15%		B	**Shrink-swell Potential:** moderate				

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75D** Clover loam 15 - 25%	Very deep, well drained, dark-red and reddish-yellow clayey soils on moderately steep backslopes; developed in residuum from interbedded Triassic conglomerate, shale and siltstone	High 0.32, 0.28 B	FAIR steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** moderate	MARGINAL percs slowly steep slopes	PRIME PASTURE	MODERATE	
76B Sudley - Oatlands complex 2 - 7%	Complex of very deep (Sudley) and moderately deep (Oatlands) well drained strong brown to reddish-brown loamy soils on undulating summits and gently sloping backslopes; developed in residuum from Triassic conglomerate and sandstone	Moderate 0.37, 0.28 – 0.24, 0.24 B	GOOD **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL shallow to rock	PRIME CROPLAND	MODERATE	IIe
76C Sudley - Oatlands complex 7 - 15%	Complex of very deep (Sudley) and moderately deep (Oatlands) well drained strong brown to reddish-brown loamy soils on rolling summits and strongly sloping backslopes; developed in residuum from Triassic conglomerate and sandstone	Moderate 0.37, 0.28 – 0.24, 0.24 B	GOOD **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL shallow to rock	SECONDARY CROPLAND	MODERATE	IIIe
76D** Sudley - Oatlands complex 15 - 25%	Complex of very deep (Sudley) and moderately deep (Oatlands) well drained strong brown to reddish-brown loamy soils on moderately steep backslopes; developed in residuum from Triassic conglomerate and sandstone	High 0.37, 0.28 – 0.24, 0.24 B	GOOD **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL shallow to rock steep slopes	PRIME PASTURE	MODERATELY LOW	
77A** Arcola - Nestoria complex 0 - 2%	Moderately deep, well drained dark red silty soil (Arcola) and shallow, well to excessively drained, yellowish red silty soil containing more than 35% rock fragments in the subsoil (Nestoria), on nearly level summits; developed in residuum from Triassic siltstone and shale	Slight 0.32, 0.10 C – D	FAIR shallow to rock; little soil available for landscaping or grading **Bearing Capacity:** low - moderate **Shrink-swell Potential:** low	POOR shallow to rock	PRIME PASTURE	MODERATELY LOW	
77B** Arcola - Nestoria complex 2 - 7%	Moderately deep, well drained dark red silty soil (Arcola) and shallow, well to excessively drained, yellowish red silty soil containing more than 35% rock fragments in the subsoil (Nestoria), on undulating summits and gently sloping backslopes; developed in residuum from Triassic siltstone and shale	Moderate 0.32, 0.10 C – D	FAIR shallow to rock; little soil available for landscaping or grading **Bearing Capacity:** low- moderate **Shrink-swell Potential:** low	POOR shallow to rock	PRIME PASTURE	MODERATELY LOW	
77B3** Arcola - Nestoria complex, gullied 2 - 7%	Moderately deep, well drained dark red silty soil (Arcola) and shallow, well to excessively drained, yellowish red silty soil containing more than 35% rock fragments in the subsoil (Nestoria), with gullies on gently sloping backslopes; developed in residuum from Triassic siltstone and shale	High 0.32, 0.10 C – D	POOR shallow to rock; little soil available for landscaping or grading; gullies **Bearing Capacity:** low- moderate **Shrink-swell Potential:** low	NOT SUITED shallow to rock	SECONDARY PASTURE	MODERATELY LOW	

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MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
77C Arcola - Nestoria complex 7 - 15%	Moderately deep, well drained dark red silty soil (Arcola) and shallow, well to excessively drained, yellowish red silty soil containing more than 35% rock fragments in the subsoil (Nestoria), with gullies on strongly sloping backslopes; developed in residuum from Triassic siltstone and shale	High 0.32, 0.10 C – D	FAIR shallow to rock; little soil available for landscaping or grading **Bearing Capacity:** low- moderate **Shrink-swell Potential:** low	POOR shallow to rock	SECONDARY PASTURE	MODERATELY LOW	IIIe - IVe
77C2	**SEE MAP UNIT 77C**						
77C3** Nestoria – Arcola complex, gullied 7 - 15%	Shallow, well to excessively drained (Nestoria), and moderately deep, well drained (Arcola) eroded reddish-brown silty soils with gullies on strongly sloping convex backslopes in dissected terrain; developed in residuum from Triassic siltstone and shale	High 0.32, 0.10 D - C	POOR shallow to rock; little soil available for landscaping or grading; gullies **Bearing Capacity:** moderate - low **Shrink-swell Potential:** low	NOT SUITED shallow to rock	SECONDARY PASTURE	MODERATELY LOW	
77D** Nestoria gravelly loam 15 - 25%	Shallow, well to excessively drained reddish-brown loamy soils containing more than 35% rock fragments on moderately steep backslopes; developed in residuum from Triassic siltstone and shale	Very High 0.32, 0.10 D	POOR shallow to rock; steep slopes; little soil material available for landscaping or grading **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED shallow to rock steep slopes	SECONDARY PASTURE	MODERATELY LOW	
77D2	**SEE MAP UNIT 77E**						
77E Nestoria gravelly loam 25 - 45%	Shallow, well to excessively drained reddish-brown loamy soils containing more than 35% rock fragments on steep backslopes; developed in residuum from Triassic siltstone and shale	Very high 0.32, 0.10 D	POOR shallow to rock; very steep slopes; little soil material available for landscaping or grading **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED shallow to rock very steep slopes	SECONDARY PASTURE	LOW	VIIe
78A Dulles silt loam 0 - 2%	Deep, moderately well and somewhat poorly drained, light yellowish-brown clayey soils with intermittent high water table water tables on broad, nearly level interfluves and concave areas; developed in local colluvium and residuum from red Triassic shale and sandstone; may have HYDRIC soil inclusions	Slight 0.43, 0.43 D	VERY POOR may be within 100-year floodplain; frequent flooding; occasional ponding; high water table; low relief; low bearing capacity when wet due to high silt content and shrink-swell clay in the subsoil **Bearing Capacity:** low **Shrink-swell Potential:** high	NOT SUITED high water table; landscape position (swale)	PRIME PASTURE	MODERATELY LOW	IVw

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79A Albano silt loam 0 - 2%	Deep, poorly drained, mottled reddish-brown and gray clayey soils with intermittent high water table water tables on upland flats and in drainageways; developed in local alluvium and residuum from red Triassic shale and sandstone; HYDRIC SOIL	Slight 0.37, 0.32 D	VERY POOR may be within 100-year floodplain; frequent flooding; occasional ponding; concentrated runoff from higher areas; high water table; low relief; low bearing capacities when wet (high silt content) and high shrink-swell clay in the subsoil **Bearing Capacity:** low **Shrink-swell Potential:** high	NOT SUITED high water table	SECONDARY PASTURE	MODERATELY LOW	Vw
80B	**SEE MAP UNIT 76B**						
80C	**SEE MAP UNIT 76C**						
81B Brumbaugh loam 2 - 7%	Very deep, moderately well drained, light yellowish-brown to strong brown loamy soils on footslopes and toeslopes of mountains and in broad gently sloping interfluves; semi-rounded stones make up 5-50% of the soil; developed in old mountain colluvium from mixed acidic and basic rocks	Moderate 0.28, 0.20 B	FAIR intermittent high water table **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR high water table	SECONDARY CROPLAND	MODERATE	IIe
81C Brumbaugh loam 7 - 15%	Very deep, moderately well drained, yellowish-brown loamy soils on footslopes and toeslopes of mountains and in broad, strongly sloping interfluves; semi-rounded stones make up 5-50% of the soil; developed in old mountain colluvium from mixed acidic and basic rocks	Moderate 0.28, 0.20 B	FAIR intermittent high water table **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR high water table	PRIME PASTURE	MODERATE	IIIe
82B Scattersville loam, stony 2 - 7%	Very deep, somewhat poorly drained, brownish yellow loamy soils on gently sloping footslopes; soil surface is covered by 0.01 – 0.1% stones; developed in colluvium from felsic to mafic crystalline rock; may have HYDRIC soil inclusions	Moderate 0.32, 0.28 C	VERY POOR high water table; stoniness; overland flow - significant destructive potential during flooding events **Bearing Capacity:** low **Shrink-swell Potential:** moderate	NOT SUITED high water table	PRIME PASTURE	MODERATELY LOW	IVw

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82C**	Very deep, somewhat poorly drained, brownish yellow loamy soils on strongly	Moderate	VERY POOR	NOT SUITED	PRIME PASTURE	MODERATELY LOW	IVw
Scattersville loam, stony	sloping footslopes; soil surface is covered by 0.01 – 0.1% stones; developed in colluvium	0.32, 0.28	high water table; stoniness; overland flow - significant destructive	high water table			
7 - 15%	from felsic to mafic crystalline rock; may have HYDRIC soil inclusions	C	potential during flooding events **Bearing Capacity:** low **Shrink-swell Potential:** moderate				
83C	Very deep, well drained reddish-brown clayey soils on footslopes, broad, rolling summits and	Moderate	FAIR	MARGINAL	PRIME PASTURE	MODERATELY LOW	IVs
Braddock gravelly loam; stony	strongly sloping backslopes; rounded stones make up 0 - 50% of the soil mass; soil surface	0.28, 0.24	stoniness **Bearing Capacity:** low	percs slowly stoniness			
7 - 15%	is covered by 0.01 – 0.1% stones with some cobbles and gravel; developed in old colluvium from mixed acidic and basic rocks	B	**Shrink-swell Potential:** moderate				
83D**	Very deep, well drained reddish-brown clayey soils on moderately steep backslopes; rounded	High	FAIR	MARGINAL	SECONDARY PASTURE	MODERATELY LOW	IVs
Braddock gravelly loam; stony	stones make up 0 - 50% of the soil mass; soil surface is covered by 0.01 – 0.1% stones with	0.28, 0.24	steep slopes, stoniness **Bearing Capacity:** low	percs slowly stoniness			
7 - 15%	some cobbles and gravel; developed in old colluvium from mixed acidic and basic rocks	B	**Shrink-swell Potential:** moderate	steep slopes			
84C	Very deep, well drained reddish-brown clayey soils on footslopes, broad, rolling summits and	Moderate	VERY POOR	POOR	SECONDARY PASTURE	MODERATELY LOW	VIIs
Braddock gravelly loam; very stony	strongly sloping backslopes; rounded stones make up 0 - 50% of the soil mass; soil surface	0.28, 0.24	stoniness; little soil material available for landscaping or grading	stoniness percs slowly			
7 - 15%	is covered by 0.1 – 3% stones with some cobbles and gravel; developed in old colluvium from mixed acidic and basic rocks	B	**Bearing Capacity:** low **Shrink-swell Potential:** moderate				
85C2	**SEE MAP UNIT 83C**						
86C2	**SEE MAP UNIT 83C**						
87B**	Very deep, well drained, dark yellowish-brown soils on footslopes and benches; semi-rounded	Moderate	FAIR	MARGINAL	SECONDARY CROPLAND	MODERATELY HIGH	
Tate loam	stones and cobbles make up 5-50% of the soil; developed in recent colluvium from granitic	0.28, 0.24	some areas are subject to overland flow; significant destructive	landscape position			
2 - 7%	rocks	B	potential during storm events if at the base of long steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low				

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87C Tate loam 7- 15%	Very deep, well drained, dark yellowish brown soils on footslopes and benches; semi-rounded stones and cobbles make up 5-50% of the soil mass; developed in recent colluvium from granitic rocks	Moderate 0.28, 0.24 B	FAIR some areas are subject to overland flow; significant destructive potential during storm events **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL landscape position	PRIME PASTURE	MODERATELY HIGH	IVe
87D** Tate loam 15- 25%	Very deep, well drained, dark yellowish brown soils on steep footslopes; semi-rounded stones and cobbles make up 5-50% of the soil mass; developed in recent colluvium from granitic rocks	Severe 0.28, 0.24 B	FAIR some areas are subject to overland flow; significant destructive potential during storm events **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL landscape position	PRIME PASTURE	MODERATELY HIGH	
88C Lew gravelly silt loam, very stony 7 - 15%	Very deep, well drained yellowish-red soils in swales, saddles and drainageways; rock fragments average more than 35% in the soil mass; soil surface is covered by 0.05 – 4% stones with some gravels, cobbles and boulders; developed from recent mountain colluvium of greenstone rock material	Moderate 0.17, 0.15 B	VERY POOR subject to slippage; unstable when undercut **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL steep slopes: percs slow, lateral groundwater flow	SECONDARY PASTURE	MODERATELY HIGH	VIIs
88D** Lew gravelly silt loam, very stony 15 - 25%	Very deep, well drained yellowish-red soils on moderately steep back slopes; rock fragments average more than 35% in the soil mass; soil surface is covered by 0.05 – 4% stones with some gravels, cobbles and boulders; developed from recent mountain colluvium of greenstone rock material	High 0.17, 0.15 B	VERY POOR subject to slippage; unstable when undercut; steep slope **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL steep slopes: percs slow, lateral groundwater flow	SECONDARY PASTURE	MODERATELY HIGH	VIIs
88E** Lew gravelly silt loam, very stony 25 - 45%	Very deep, well drained yellowish-red soils on steep back slopes; rock fragments average more than 35% in the soil mass; soil surface is covered by 0.05 – 4% stones with some gravels, cobbles and boulders; developed from recent mountain colluvium of greenstone rock material	Very High 0.17, 0.15 B	VERY POOR subject to slippage; unstable when undercut; very steep slope **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED very steep slopes: percs slow, lateral groundwater flow	NOT SUITED	MODERATE	VIIe

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89C Weverton gravelly loam, very stony 7 - 15%	Deep, well drained strong brown loamy-skeletal soils on strongly sloping backslopes and benches; gravels and flagstones range from 15 – 70% of the soil mass; soil surface is covered with 0.1 – 4% flagstones; formed in colluvium from interbedded quartzite, quartz muscovite schist and phyllite	Moderate 0.15, 0.10 C	FAIR stoniness **Bearing Capacity:** moderate **Shrink-swell Potential:** low	GOOD	SECONDARY PASTURE	MODERATELY LOW	VIIs
89D Weverton gravelly loam, very stony 15 - 25%	Deep, well drained strong brown loamy-skeletal soils on moderately steep backslopes; gravels and flagstones range from 15 – 70% of the soil mass; soil surface is covered with 0.1 – 4% flagstones; formed in colluvium from interbedded quartzite, quartz muscovite schist and phyllite	High 0.15, 0.10 C	FAIR steep slopes; stoniness **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL steep slopes	SECONDARY PASTURE	MODERATELY LOW	VIIs
93A** Delanco loam 0 - 2%	Very deep, moderately well to somewhat poorly drained, yellowish-brown clayey soils with high water tables on nearly level low terraces along major streams; developed in old alluvium washed from uplands underlain by a wide variety of rocks common to the county; may have HYDRIC soils inclusions	Slight 0.28, 0.28 C	FAIR high water table **Bearing Capacity:** low **Shrink-swell Potential:** moderate	POOR high water table	SECONDARY CROPLAND	MODERATELY HIGH	
93B Delanco loam 2 - 7%	Very deep, moderately well to somewhat poorly drained, yellowish-brown clayey soils with intermittent high water table water tables on gently sloping low terraces along major streams; developed in old alluvium washed from uplands underlain by a wide variety of rocks common to the county; may have HYDRIC soil inclusions.	High 0.28, 0.28 C	FAIR may be within 100-year floodplain; rare flooding; intermittent high water table **Bearing Capacity:** low **Shrink-swell Potential:** moderate	POOR high water table	SECONDARY CROPLAND	MODERATELY HIGH	IIe
94B Elsinboro loam 2 - 7%	Very deep, well drained, strong brown loamy soils on low terraces along major streams, developed in old alluvium washed from uplands underlain by a wide variety of rocks common to the county	Moderate 0.28, 0.28 B	FAIR may be within 100-year floodplain; rare flooding **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL infrequent flood hazard	PRIME CROPLAND	MODERATELY HIGH	IIe
95B	**SEE MAP UNIT 97B**						
96C3	**SEE MAP UNIT 97B**						

*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
97B Goresville loam 2 - 7%	Very deep, well drained, dark red clayey soils on gently sloping high river terrace positions; developed in old alluvium washed from uplands underlain by a wide variety of rocks common to the county	Moderate 0.32, 0.24 B	GOOD **Bearing Capacity:** moderate **Shrink-swell Potential:** moderate	MARGINAL percs slowly	PRIME CROPLAND	MODERATE	IIe
97C2	**SEE MAP UNIT 97B**						
98B	**SEE MAP UNIT 93B**						
110A** Mongle Variant silt loam 0 - 2%	Very deep, poorly drained, gray and yellowish brown clayey soils with high water tables in concave landscapes, along small drainageways and on alluvial fans; developed in recent colluvium/alluvium washed from basic and acidic rocks; HYDRIC SOIL	Slight 0.37, 0.37 C	VERY POOR may be within l00-year floodplain; frequent flooding; frequent ponding; concentrated runoff from higher areas; prolonged high water table; overland flow-significant destructive potential during flooding events **Bearing Capacity:** low **Shrink-swell Potential:** high	NOT SUITED high water table	SECONDARY PASTURE	MODERATE	
1l6B** Meadowville silt loam; very stony 2 - 7%	Very deep, moderately well to well drained, yellowish-brown to reddish-brown silty soils with intermittent high water tables in concave uplands and along small drainageways; 0.1 – 3% stones and cobbles cover the soil surface; developed in recent colluvium and local wash from acid rock materials; may have HYDRIC soil inclusions	Moderate 0.37, 0.32 B	POOR frequent flooding; concentrated runoff from higher areas; intermittent high water table; low bearing capacity when wet **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED landscape position	SECONDARY PASTURE	MODERATE	
1l6C** Meadowville silt loam; very stony 7 - 15%	Very deep, moderately well to well drained, yellowish-brown to reddish-brown silty soils with intermittent high water tables in concave uplands and along small drainageways; 0.1 – 3% stones and cobbles cover the soil surface; developed in recent colluvium and local wash from acid rock materials; may have HYDRIC soil inclusions	High 0.37, 0.32 B	POOR frequent flooding; concentrated runoff from higher areas; intermittent high water table; low bearing capacity when wet **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED landscape position	SECONDARY PASTURE	MODERATE	

*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
117B** Middleburg loam; very stony 2 - 7%	Very deep, well drained, brown loamy soils in concave swales and along small drainageways ; 0.1 – 3% stones and cobbles cover the soil surface; developed in recent colluvium from mixed basic and acidic rock; may have HYDRIC soil inclusions	Moderate 0.37, 0.32 B	POOR frequent flooding; concentrated runoff from higher areas; low bearing capacity when wet **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED landscape position	SECONDARY PASTURE	HIGH	
117C** Middleburg loam; very stony 7 - 15%	Very deep, well drained, brown loamy soils in concave swales and along small drainageways; 0.1 – 3% stones and cobbles cover the soil surface; developed in recent colluvium from mixed basic and acidic rock; may have HYDRIC soil inclusions	Moderate 0.37, 0.32 B	POOR frequent flooding; concentrated runoff from higher areas; low bearing capacity when wet; **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED landscape position	SECONDARY PASTURE	HIGH	
120C	**SEE MAP UNIT 20C**						
120D	**SEE MAP UNIT 20D**						
121B** Pigeonroost – Edneytown complex, very stony 2 - 7%	Moderately deep (Pigeonroost) and very deep (Edneytown), well drained, yellowish-brown loamy soils on undulating summits and gently sloping backslopes of the Blue Ridge; rock outcrops cover 0.01–0.1% and loose stones cover 0.1-3% of the surface; developed in residuum from granite and granite gneiss	Moderate 0.28, 0.24 B	FAIR shallow to rock; stoniness **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL shallow to rock	SECONDARY PASTURE	MODERATE	
121C Pigeonroost – Edneytown complex, very stony 7 - 15%	Moderately deep (Pigeonroost) and very deep (Edneytown), well drained, yellowish-brown loamy soils on rolling summits and strongly sloping backslopes of the Blue Ridge; rock outcrops cover 0.01 – 0.1% and loose stones cover 0.1 - 3% of the surface; developed in residuum from granite and granite gneiss	Moderate 0.28, 0.24 B	FAIR shallow to rock; stoniness **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL shallow to rock	SECONDARY PASTURE	MODERATE	VIIs
121D Pigeonroost – Edneytown complex, very stony 15 - 25%	Moderately deep (Pigeonroost) and very deep (Edneytown), well drained, yellowish-brown loamy soils on moderately steep backslopes of the Blue Ridge; rock outcrops cover 0.01–0.1% and loose stones cover 0.1-3% of the surface; developed in residuum from granite and granite gneiss	High 0.28, 0.24 B	POOR shallow to rock; steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL steep slopes shallow to rock	SECONDARY PASTURE	MODERATE	VIIs

*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
121E Pigeonroost loam, very stony 25 - 45%	Moderately deep, well drained, yellowish-brown loamy soils on steep backslopes of the Blue Ridge; rock outcrops cover 0.01– 0.1% and loose stones cover 0.1 - 3% of the surface; developed in residuum from granite and granite gneiss	Very high 0.28, 0.24 B	VERY POOR shallow to rock; very steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED very steep slopes shallow to rock	NOT SUITED	MODERATELY LOW	VIIe
123B	**SEE MAP UNIT 23B**						
123C**	**SEE MAP UNIT 23C**						
125B** Hazel very stony loam; rocky 2 - 7%	Moderately deep, excessively drained light yellowish-brown loamy soils on undulating summits and gently sloping backslopes; loose stones cover 0.1-5% and rock outcrop 0.1 – 3% of the surface; developed in residuum from meta-arkosic sandstone	Moderate 0.28, 0.24 C	POOR shallow to rock; stoniness; rock-outcrop **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock	SECONDARY PASTURE	VERY LOW	
125C Hazel very stony loam; rocky 7 - 15%	Moderately deep, excessively drained light yellowish-brown loamy soils on rolling summits and strongly sloping backslopes; loose stones cover 0.1-5% and rock outcrop 0.1 – 3% of the surface; developed in residuum from meta-arkosic sandstone	Moderate 0.28, 0.24 C	POOR shallow to rock; stoniness; rock-outcrop **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock	SECONDARY PASTURE	VERY LOW	VIs
125D Hazel very stony loam; rocky 15 - 25%	Moderately deep, excessively drained light yellowish-brown loamy soils on narrow summits and moderately steep backslopes; loose stones cover 0.1-5% and rock outcrop 0.1 – 2% of the surface; developed in residuum from meta-arkosic sandstone	High 0.28, 0.24 C	POOR shallow to rock; stoniness; rock-outcrop; steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock steep slopes	SECONDARY PASTURE	VERY LOW	VIIs
125E Hazel very stony loam; rocky 25 - 45%	Moderately deep, excessively drained light yellowish-brown loamy soils on steep backslopes; loose stones cover 0.1-5% and rock outcrop 0.1 – 2% of the surface; developed in residuum from meta-arkosic sandstone	Very high 0.28, 0.24 C	POOR shallow to rock; stoniness; rock-outcrop; very steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED shallow to rock very steep slopes	NOT SUITED	VERY LOW	VIIs
128C	**SEE MAP UNIT 20C**						
128D	**SEE MAP UNIT 20D**						
130B** Edneytown loam; stony 2 - 7%	Very deep, well drained, yellowish-brown loamy soils on undulating summits and gently sloping backslopes; loose stones cover 0.01-1% of the soil surface; developed in residuum from, augen gneiss, granite gneiss and granite	Moderate 0.28, 0.24 B	GOOD **Bearing Capacity:** moderate **Shrink-swell Potential:** low	GOOD	SECONDARY CROPLAND	MODERATE	

*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
130C** Edneytown loam; stony 7 - 15%	Very deep, well drained, yellowish-brown loamy soils on rolling summits and strongly sloping backslopes; loose stones cover 0.01-1% of the soil surface; developed in residuum from, augen gneiss, granite gneiss and granite	Moderate 0.28, 0.24 B	GOOD **Bearing Capacity:** moderate **Shrink-swell Potential:** low	GOOD	SECONDARY CROPLAND	MODERATE	
131C	**SEE MAP UNIT 23C**						
131D** Purcellville – Tankerville complex 15 – 25%	Very deep, well drained , strong brown , fine-silty (Purcellville) and moderately deep, well drained, strong brown, coarse-loamy (Tankerville) soils on moderately steep backslopes; developed in residuum from granite, granite gneiss and granitic schist	High 0,.32, 0.28 – 0.32, 0.24 B	FAIR steep slopes; shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL steep slopes shallow to rock	PRIME PASTURE	MODERATELY LOW	
134B** Happyland loam 2 - 7%	Very deep, well drained, brownish-yellow loamy soils on gently sloping backslopes; developed in residuum from phyllite and meta-monzonite granite	Moderate 0.37, 0.28 B	GOOD **Bearing Capacity:** low **Shrink-swell Potential:** low	GOOD	PRIME CROPLAND	MODERATELY LOW	
134C** Happyland loam 7 -15%	Very deep, well drained, brownish-yellow loamy soils on strongly sloping backslopes; developed in residuum from phyllite and meta-monzonite granite	Moderate 0.37, 0.28 B	GOOD **Bearing Capacity:** low **Shrink-swell Potential:** low	GOOD	SECONDARY CROPLAND	MODERATELY LOW	
134D** Happyland loam 15 -25%	Very deep, well drained, brownish-yellow loamy soils on moderately steep backslopes; developed in residuum from phyllite and meta-monzonite granite	High 0.37, 0.28 B	FAIR steep slopes **Bearing Capacity:** low **Shrink-swell Potential:** low	MARGINAL Steep slopes	PRIME PASTURE	MODERATELY LOW	
140B** Pignut silt loam 2 - 7%	Moderately deep, well drained, strong brown silty soils on undulating summits and gently sloping backslopes in highly dissected landscapes; developed in residuum from greenstone	Moderate 0.37, 0.32 C	FAIR shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock	SECONDARY CROPLAND	MODERATELY LOW	

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MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
140C** Pignut silt loam 7 - 15%	Moderately deep, well drained, strong brown silty soils with few rock outcrops, stones and boulders on convex strongly sloping backslopes in highly dissected landscapes; developed in residuum from greenstone	Moderate 0.37, 0.32 C	FAIR shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock	SECONDARY CROPLAND	MODERATELY LOW	
140D** Pignut silt loam 15 - 25%	Moderately deep, well drained, strong brown silty soils on moderately steep backslopes in highly dissected landscapes; developed in residuum from greenstone	High 0.37, 0.32 C	FAIR shallow to rock; steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock	PRIME PASTURE	MODERATELY LOW	
140E** Pignut silt loam 25 - 50%	Moderately deep, well drained, strong brown silty soils on steep backslopes in highly dissected landscapes; developed in residuum from greenstone	Very High 0.37, 0.32 C	POOR shallow to rock; very steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED shallow to rock very steep slopes	NOT SUITED	LOW	
141D** Pignut – Alanthus complex, very stony 15 - 25 %	Moderately deep, well drained, strong brown silty soils (Pignut) and very deep, well drained, yellowish-red silty soils (Alanthus) on moderately steep backslopes; surface cover is represented by .01 – 3% stones and cobbles, and 0 – 0.1% rock outcrop; developed in residuum from greenstone	High 0.37, 0.32 C - B	POOR shallow to rock; stoniness **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock	SECONDARY PASTURE	MODERATELY LOW	
141E** Pignut silt loam; very stony 25 - 45 %	Moderately deep, well drained, strong brown silty soils on steep backslopes; surface cover is represented by .01 – 3% stones and cobbles, and 0 – 0.1% rock outcrop; developed in residuum from greenstone	Very high 0.37, 0.32 C	POOR shallow to rock; stoniness; very steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED shallow to rock very steep slopes	NOT SUITED	LOW	
141F** Pignut silt loam; very stony 45%+	Moderately deep, well drained, strong brown silty soils on very steep backslopes; surface cover is represented by .01 – 3% stones and cobbles, and 0 – 0.1% rock outcrop; developed in residuum from greenstone	Very high 0.37, 0.32 C	VERY POOR shallow to rock; stoniness; very steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED shallow to rock very steep slopes	NOT SUITED	LOW	

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MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR SELECTED USES GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
148B** Catoctin (shallow phase) – Fletcherville complex 2 - 7%	Shallow, well drained, olive brown loamy skeletal soils (Catoctin-shallow) and deep, moderately well drained, light yellowish brown, shrink-swell clay soils (Fletcherville) on convex/concave sideslopes and summits; developed in residuum from greenstone schist	Moderate 0.32, 0.17 – 0.32, 0.28 D	POOR shallow to rock; shrink-swell clay in subsoil **Bearing Capacity:** moderate - low **Shrink-swell Potential:** high	NOT SUITED shallow to rock shrink-swell clay in subsoil	PRIME PASTURE	LOW	
148C** Catoctin (shallow phase) – Fletcherville complex 7 - 15%	Shallow, well drained, olive brown, loamy skeletal soils (Catoctin-shallow) and deep, moderately well drained, light yellowish brown, shrink-swell clay soils (Fletcherville) on convex/concave sideslopes; developed in residuum from greenstone schist	Moderate 0.32, 0.17 – 0.32, 0.28 D	POOR shallow to rock; shrink-swell clay in subsoil **Bearing Capacity:** moderate - low **Shrink-swell Potential:** high	NOT SUITED shallow to rock shrink-swell clay in subsoil	PRIME PASTURE	LOW	
153E** Glenelg loam 25 - 45%	Very deep, well drained, micaceous, yellowish-red loamy soils on steep backslopes in dissected uplands; developed in residuum from mica schist and mica gneiss	Very high 0.32, 0.32 B	VERY POOR high mica content in substratum may interfere with compaction; very steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED very steep slopes	SECONDARY PASTURE	MODERATELY LOW	
160B** Ott silt loam 2 - 7%	Moderately deep, well drained, grayish-brown silty soils on gently sloping backslopes; developed in residuum from bluish-gray thermally altered Triassic shale	Moderate 0.37, 0.32 C	FAIR shallow to rock **Bearing Capacity:** low **Shrink-swell Potential:** low	POOR shallow to rock	SECONDARY CROPLAND	MODERATELY LOW	
163A** Remington silt loam 0 - 2%	Deep, moderately well drained, yellowish-brown clay pan soils with intermittent high water tables on broad upland flats and concave areas; developed in old alluvial capping underlain by residuum from thermally-altered Triassic shale and granulite	Slight 0.43, 0.43 D	VERY POOR high shrink-swell clay layers in the subsoil; intermittent high water table; low relief **Bearing Capacity:** low **Shrink-swell Potential:** very high	NOT SUITED high water table	SECONDARY CROPLAND	MODERATELY LOW	

*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
163B** Remington silt loam 2 - 7%	Deep, moderately well drained, yellowish-brown clay pan soils with intermittent high water tables on gently sloping backslopes; developed in old alluvial capping underlain by residuum from thermally-altered Triassic shale and granulite	Moderate 0.43, 0.43 D	VERY POOR high shrink-swell clay layers in the subsoil; intermittent high water table; low relief **Bearing Capacity:** low **Shrink-swell Potential:** very high	NOT SUITED high water table	SECONDARY CROPLAND	MODERATELY LOW	
164B** Oakhill-Rock Outcrop complex 2 - 7%	Moderately deep, well drained, yellowish-red loamy soils with more than 35% rock fragments in the soil mass and 10 – 25% rock outcrops on gently sloping backslopes; soil surface is covered by 0.01 – 0.2% stones and cobbles; developed in residuum from basalt	Moderate 0.24, 0.28 B	VERY POOR rock outcrops; stones and boulders **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED rock outcrops shallow to rock stone content	NOT SUITED	MODERATELY LOW	VIIs
164C Oakhill-Rock Outcrop complex 7 - 15%	Moderately deep, well drained, yellowish-red loamy soils with more than 35% rock fragments in the soil mass and 10 – 25% rock outcrops on strongly sloping backslopes; soil surface is covered by 0.01 – 0.2% stones and cobbles; developed in residuum from basalt	Moderate 0.24, 0.28 B	VERY POOR rock outcrops; stones and boulders **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED rock outcrops shallow to rock stone content	NOT SUITED	MODERATELY LOW	VIIs
164D Oakhill-Rock Outcrop complex 15 - 25%	Moderately deep, well drained, yellowish-red loamy soils with more than 35% rock fragments in the soil mass and 10 – 25% rock outcrops on moderately steep and steep backslopes; soil surface is covered by 0.01 – 0.2% stones and cobbles; developed in residuum from basalt	High 0.24, 0.28 B	VERY POOR rock outcrops; steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED steep slopes rock outcrops	NOT SUITED	MODERATELY LOW	
165C3	**SEE MAP UNIT 65C**						
167A** Haymarket silt loam 0 - 2%	Very deep, well drained, dark brown clayey soils on nearly level summits; developed in residuum from Triassic diabase and basalt	Slight 0.37, 0.20 D	POOR high shrink-swell clay in the subsoil **Bearing Capacity:** low **Shrink-swell Potential:** very high	POOR percs slowly	PRIME CROPLAND	MODERATE	IIe
167B Haymarket silt loam 2 - 7%	Very deep, well drained, dark brown clayey soils on undulating summits and gently sloping backslopes; developed in residuum from Triassic diabase and basalt	Moderate 0.37, 0.20 D	POOR high shrink-swell clay in the subsoil **Bearing Capacity:** low **Shrink-swell Potential:** very high	POOR percs slowly	PRIME CROPLAND	MODERATE	IIe

*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
167C Montalto and Haymarket soils 7 - 15%	Very deep, well drained, red clayey soils and/or dark brown clayey soils on strongly sloping backslopes; developed in residuum from Triassic diabase and basalt- - - **This map unit will predominantly contain Montalto and/or Haymarket soils**	Moderate 0.32, 0.28 – 0.37, 0.20 C - D	POOR high shrink-swell clay in the subsoil **Bearing Capacity:** low **Shrink-swell Potential:** very high	MARGINAL percs slowly	SECONDARY CROPLAND	MODERATE	IIIe
169A	**SEE MAP UNIT 69A**						
170A** Mt. Lucas Variant loam 0 - 2%	Deep, moderately well drained, strong brown loamy over clayey soils on nearly level summits and footslopes; developed in colluvium over residuum from basalt and diabase; may have HYDRIC soil inclusions	Slight 0.32, 0.28 C	POOR intermittent high water table; shrink-swell clay in lower subsoil **Bearing Capacity:** low **Shrink-swell Potential:** high	NOT SUITED high water table	SECONDARY CROPLAND	MODERATE	
170B** Mt. Lucas Variant loam 2 - 7%	Deep, moderately well drained, strong brown loamy over clayey soils on undulating summits and gently sloping footslopes; developed in colluvium over residuum from basalt and diabase; may have HYDRIC soil inclusions	Moderate 0.32, 0.28 C	POOR intermittent high water table; shrink-swell clay in lower subsoil **Bearing Capacity:** low **Shrink-swell Potential:** high	NOT SUITED high water table	SECONDARY CROPLAND	MODERATE	
171B** Panorama Variant very gravelly silt loam 2 – 7%	Very deep, well drained, dark reddish-brown silty soils on undulating summits and broad, gently sloping backslopes; developed in residuum from red Triassic shale and sandstone	Moderate 0.37, 0.32 B	FAIR low bearing capacity when wet (high silt content), very gravelly surface **Bearing Capacity:** low **Shrink-swell Potential:** low	MARGINAL percs slowly	SECONDARY CROPLAND	MODERATE	
171C** Panorama Variant very gravelly silt loam 7 - 15%	Very deep, well drained, dark reddish-brown silty soils on rolling summits and strongly sloping backslopes; developed in residuum from red Triassic shale and sandstone	Moderate 0.37, 0.32 B	FAIR low bearing capacity when wet (high silt content); very gravelly surface **Bearing Capacity:** low **Shrink-swell Potential:** low	MARGINAL percs slowly	SECONDARY CROPLAND	MODERATE	
173A** Penn gravelly silt loam (**WET PHASE**) 0 - 2%	Moderately deep, moderately well drained, reddish-brown silty soils on nearly level summits and upper backslopes; developed in residuum from Triassic siltstone, shale and conglomerate	Slight 0.32, 0.24 C	FAIR intermittent high water table shallow to rock **Bearing Capacity:** low **Shrink-swell Potential:** low	POOR high water table shallow to rock	SECONDARY CROPLAND	MODERATELY LOW	

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MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
173B** Penn gravelly silt loam (**WET PHASE**) 2 - 7%	Moderately deep, moderately well drained, reddish-brown silty soils on undulating summits and gently sloping backslopes, developed in residuum from Triassic siltstone and shale	Moderate 0.32, 0.24 C	FAIR intermittent high water table shallow to rock **Bearing Capacity:** low **Shrink-swell Potential:** low	POOR high water table shallow to rock	SECONDARY CROPLAND	MODERATEY LOW	
173C** Penn gravelly silt loam (**WET PHASE**) 7 - 15%	Moderately deep, moderately well drained, reddish-brown silty soils on rolling summits and strongly sloping backslopes, developed in residuum from Triassic siltstone and shale	Moderate 0.32, 0.24 C	FAIR intermittent high water table shallow to rock **Bearing Capacity:** low **Shrink-swell Potential:** low	POOR high water table shallow to rock	SECONDARY CROPLAND	MODERATEY LOW	
174B** Ashburn very gravelly silt loam 2 - 7%	Moderately deep, moderately well drained, yellowish-brown silty soils with intermittent high water tables on gently sloping landscapes; developed from thin fluvial capping over Triassic siltstone	Moderate 0.37, 0.24 C	FAIR intermittent high water table; low bearing capacity when wet; very gravelly surface **Bearing Capacity:** low **Shrink-swell Potential:** moderate	POOR shallow to rock high water table	PRIME PASTURE	MODERATELY LOW	
175B** Clover very gravelly silt loam 2 - 7%	Very deep, well drained, red to dark red clayey soils on undulating summits and gently sloping backslopes; developed in residuum from Triassic siltstone and conglomerate	Moderate 0.32, 0.28 B	FAIR very gravelly surface **Bearing Capacity:** moderate **Shrink-swell Potential:** moderate	MARGINAL percs slowly	SECONDARY CROPLAND	MODERATE	
176B** Oatlands very gravelly silt loam; (**WET PHASE**) 2 - 7%	Moderately deep, moderately well drained, strong brown to reddish-brown loamy soils on undulating summits and gently sloping backslopes; developed in residuum from Triassic siltstone and conglomerate	Moderate 0.24, 0.24 B	FAIR intermittent high water table; shallow to rock; very gravelly surfaces **Bearing Capacity:** low **Shrink-swell Potential:** low	POOR high water table shallow to rock	PRIME PASTURE	MODERATELY LOW	

*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
178A** Dulles Variant silt loam 0 - 2%	Moderately deep, somewhat poorly drained, yellowish-brown mottled with gray loamy soils with intermittent high water tables in concave landscapes (swales) and drainageways; developed in local alluvium washed from Triassic uplands; may have HYDRIC soil inclusions	Slight 0.43, 0.43 D	VERY POOR may be within 100-year floodplain; high water table; low relief; low bearing capacity when wet due to high silt content **Bearing Capacity:** low **Shrink-swell Potential:** low	NOT SUITED high water table	PRIME PASTURE	LOW	
178B** Dulles Variant silt loam 2 - 7%	Moderately deep, somewhat poorly drained, yellowish-brown mottled with gray loamy soils with intermittent high water table water tables in concave landscapes (swales) and drainageways; developed in local alluvium washed from Triassic uplands; may have HYDRIC soil inclusions	Moderate 0.37, 0.32 D	VERY POOR may be within 100-year floodplain; high water table; low relief; low bearing capacity when wet due to high silt content **Bearing Capacity:** low **Shrink-swell Potential:** low	NOT SUITED high water table	PRIME PASTURE	LOW	
179A** Albano Variant silt loam 0 - 2%	Moderately deep, poorly drained, gray loamy soils with high water tables in concave landscapes (swales) and drainageways; developed in local alluvium washed from Triassic uplands; HYDRIC SOIL	Slight 0.37, 0.32 D	VERY POOR may be within 100-year floodplain; high water table; low relief; low bearing capacity when wet due to high silt content in surface and shrink-swell clay in the subsoil **Bearing Capacity:** low **Shrink-swell Potential:** low	NOT SUITED high water table	SECONDARY PASTURE	LOW	
181B** Brumbaugh loam; very stony 2 - 7%	Very deep, moderately well drained, yellowish-brown loamy soils on footslopes and toeslopes of mountains and in broad gently sloping interfluves; semi-rounded stones make up 5-50% of the soil surface; 0.1–3% stones cover the soil surface; developed in old mountain colluvium from mixed acidic and basic rocks	Moderate 0.28, 0.20 B	FAIR intermittent high water table; stoniness **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR high water table	SECONDARY PASTURE	MODERATELY LOW	
183B** Braddock gravelly loam 2 - 7%	Very deep, well drained, reddish-brown clayey soils on footslopes, broad, undulating summits and gently sloping backslopes; rounded stones make up 0 - 50% of the soil mass; developed in old colluvium from mixed acidic and basic rocks	Moderate 0.28, 0.24 B	GOOD **Bearing Capacity:** low **Shrink-swell Potential:** moderate	MARGINAL percs slowly	PRIME CROPLAND	MODERATELY HIGH	

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MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
183C** Braddock gravelly loam 7 - 15%	Very deep, well drained reddish-brown clayey soils on footslopes, broad, rolling summits and strongly sloping backslopes; rounded stones make up 0 - 50% of the soil mass; developed in old colluvium from mixed acidic and basic rocks	Moderate 0.28, 0.24 B	GOOD **Bearing Capacity:** low **Shrink-swell Potential:** moderate	MARGINAL percs slowly	SECONDARY CROPLAND	MODERATELY HIGH	
183D** Braddock gravelly loam 15 - 25%	Very deep, well drained reddish-brown clayey soils on steep backslopes; rounded stones make up 0 - 50% of the soil mass; developed in old colluvium from mixed acidic and basic rocks	High 0.28, 0.24 B	FAIR steep slopes **Bearing Capacity:** low **Shrink-swell Potential:** moderate	MARGINAL percs slowly steep slopes	PRIME PASTURE	MODERATELY HIGH	
187B** Tate loam; very stony 2- 7%	Very deep, well drained, dark yellowish-brown soils on gently sloping footslopes and benches; semi-rounded stones and cobbles make up 5-50% of the soil; 0.1-3% stones cover the soil surface; developed in recent colluvium from granitic rocks	Moderate 0.28, 0.24 B	POOR subject to overland flow; significant destructive potential during storm events; stoniness **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL landscape position	SECONDARY PASTURE	MODERATE	
187C** Tate loam; very stony 7- 15%	Very deep, well drained, dark yellowish-brown soils on strongly sloping footslopes and benches; semi-rounded stones and cobbles make up 5-50% of the soil; 0.1-3% stones cover the soil surface; developed in recent colluvium from granitic rocks	Moderate 0.28, 0.24 B	POOR subject to overland flow; significant destructive potential during storm events; stoniness **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL landscape position	SECONDARY PASTURE	MODERATE	
187D** Tate loam; very stony 15- 25%	Very deep, well drained, dark yellowish-brown soils on moderately steep footslopes and backslopes; semi-rounded stones and cobbles make up 5-50% of the soil; 0.1-3% stones cover the soil surface; developed in recent colluvium from granitic rocks	High 0.28, 0.24 B	POOR subject to overland flow; significant destructive potential during storm events; stoniness; steep slope **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL landscape position steep slope	SECONDARY PASTURE	MODERATE	
189B** Weverton gravelly loam 2 - 7%	Deep, well drained, strong brown loamy-skeletal soils on gently sloping backslopes and benches; gravels and flagstones range from 15 – 70% of the soil mass; formed in colluvium from interbedded quartzite, quartz muscovite schist and phyllite	Moderate 0.15, 0.10 C	GOOD **Bearing Capacity:** moderate **Shrink-swell Potential:** low	GOOD	SECONDARY CROPLAND	MODERATELY LOW	

*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
189C** Weverton gravelly loam 7 - 15%	Deep, well drained strong brown loamy–skeletal soils on strongly sloping backslopes and benches; gravels and flagstones range from 15 – 70% of the soil mass; formed in colluvium from interbedded quartzite, quartz muscovite schist and phyllite	Moderate 0.15, 0.10 C	GOOD **Bearing Capacity:** moderate **Shrink-swell Potential:** low	GOOD	PRIME PASTURE	MODERATELY LOW	
189D** Weverton gravelly loam 15 - 25%	Deep, well drained strong brown loamy-skeletal soils on moderately steep backslopes and benches; gravels and flagstones range from 15 – 70% of the soil mass; formed in colluvium from interbedded quartzite, quartz muscovite schist and phyllite	High 0.15, 0.10 C	FAIR Steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL steep slopes	PRIME PASTURE	MODERATELY LOW	
200** Cut and/or Fill	Disturbed areas of cutting and/ or filling	HIGHLY VARIABLE					
220B** Tankerville loam 2 - 7%	Moderately deep, well drained, strong brown coarse-loamy soils on undulating summits and gently sloping backslopes; developed in residuum from granite, schist and gneiss	Moderate 0.32, 0.24 C	FAIR shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock	SECONDARY CROPLAND	LOW	
220C** Tankerville loam 7 - 15%	Moderately deep, well drained, strong brown coarse-loamy soils on rolling summits and strongly sloping backslopes; developed in residuum from granite, schist and gneiss	High 0.32, 0.24 C	FAIR shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock	SECONDARY CROPLAND	LOW	
220D** Tankerville loam 15 - 25%	Moderately deep, well drained, strong brown coarse-loamy soils on moderately steep backslopes; developed in residuum from granite, schist and gneiss	High 0.32, 0.24 C	POOR shallow to rock; steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock; steep slopes	PRIME PASTURE	LOW	
220E** Tankerville loam 25 - 45%	Moderately deep, well drained, strong brown coarse-loamy soils on steep backslopes; developed in residuum from granite, schist and gneiss	Very high 0.32, 0.24 C	VERY POOR shallow to rock; very steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED shallow to rock very steep slopes	SECONDARY PASTURE	LOW	

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MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
220F**	Moderately deep, well drained, strong brown coarse-loamy soils on very steep backslopes;	Very high	VERY POOR	NOT SUITED	NOT SUITED	LOW	
Tankerville loam	developed in residuum from granite, schist and gneiss	0.32, 0.24	shallow to rock; very steep slopes **Bearing Capacity:** moderate	shallow to rock very steep slopes			
45 - 65%		C	**Shrink-swell Potential:** low				
221D	Moderately deep, well drained, dark yellowish-brown loamy soils on moderately	High	VERY POOR	NOT SUITED	SECONDARY PASTURE	LOW	
Pigeonroost – Rock-Outcrop complex	steep backslopes of the Blue Ridge; rock outcrops cover 5 – 15% and loose stones cover 10-40% of the surface; developed in residuum from granite and granite gneiss	0.28, 0.24 B	steep slopes; rock outcrops **Bearing Capacity:** moderate **Shrink-swell Potential:** low	steep slopes rock outcrops			
15 - 25%							
221E	Moderately deep, well drained, dark yellowish-brown loamy soils on steep	Very high	VERY POOR	NOT SUITED	NOT SUITED	LOW	VIIs
Pigeonroost – Rock-Outcrop complex	backslopes of the Blue Ridge; rock outcrops cover 5 – 15% and loose stones cover 10-40% of the surface; developed in residuum from granite and granite gneiss	0.28, 0.24 B	very steep slopes; rock outcrops **Bearing Capacity:** moderate **Shrink-swell Potential:** low	very steep slopes rock outcrops			
25 - 45%							
225D	Moderately deep, excessively drained, yellowish-brown loamy soils and 10 – 25%	High	VERY POOR	NOT SUITED	SECONDARY PASTURE	LOW	VIIs
Hazel-Rock Outcrop complex	rock outcrops on moderately steep backslopes; loose stones and cobbles cover 1-45% of the surface; developed in residuum from arkosic sandstone	0.32, 0.24 C	rock outcrops; steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	rock outcrops steep slopes			
15 - 25%							
225E	Moderately deep, excessively drained, yellowish-brown loamy soils and 10 – 25%	Very high	VERY POOR	NOT SUITED	NOT SUITED	LOW	
Hazel-Rock Outcrop complex	rock outcrops on steep backslopes; loose stones and cobbles cover 1-45% of the surface; developed in residuum from arkosic sandstone	0.32, 0.24 C	very steep slopes; rock outcrops **Bearing Capacity:** moderate **Shrink-swell Potential:** low	very steep slopes rock outcrops			
25 - 45%							
228B	Very deep, well drained, red loamy soils on undulating summits and gently sloping	Moderate	GOOD	MARGINAL	SECONDARY CROPLAND	MODERATELY HIGH	
Eubanks soils	backslopes; developed in residuum from sheared granite or granodiorite intruded by	0.32, 0.32	**Bearing Capacity:** moderate	percs slowly			
2 - 7 %	dikes of greenstone	B	**Shrink-swell Potential:** moderate				
228C	Very deep, well drained, red loamy soils (Eubanks) on rolling summits and strongly	Moderate	GOOD	MARGINAL	SECONDARY CROPLAND	MODERATELY HIGH	
Eubanks soils	sloping backslopes; developed in residuum from sheared granite or granodiorite intruded	0.32, 0.32	**Bearing Capacity:** moderate	percs slowly			
7 - 15 %	by dikes of greenstone	B	**Shrink-swell Potential:** moderate				

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MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
230B** Edneytown – Chestnut complex 2 - 7%	Very deep, well drained, yellowish-brown (Edneytown) loamy soil and moderately deep, well drained dark brown (Chestnut) coarse-loamy soil on undulating summits in dissected landscapes; developed in residuum from coarse-textured granite and granite gneiss	Moderate 0.24, 0.24 B	FAIR Shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL shallow to rock	PRIME CROPLAND	MODERATELY LOW	
230C** Edneytown – Chestnut complex 7 - 15%	Very deep, well drained, yellowish-brown (Edneytown) loamy soil and moderately deep, well drained dark brown (Chestnut) coarse-loamy soil on rolling summits and strongly sloping backslopes in dissected landscapes; developed in residuum from coarse-textured granite and granite gneiss	Moderate 0.28, 0.24 – 0.24, 0.24 B	FAIR shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL shallow to rock	SECONDARY CROPLAND	MODERATELY LOW	
230D** Edneytown – Chestnut complex 15 - 25%	Very deep, well drained, yellowish-brown (Edneytown) loamy soil and moderately deep, well drained, dark brown (Chestnut) coarse-loamy soil on moderately steep backslopes in dissected landscapes; developed in residuum from coarse-textured granite and granite gneiss	High 0.28, 0.24 – 0.24, 0.24 B	FAIR shallow to rock; steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL shallow to rock steep slopes	PRIME PASTURE	MODERATELY LOW	
230E** Edneytown – Chestnut complex 25 - 50%	Very deep, well drained, yellowish-brown (Edneytown) loamy soil and moderately deep, well drained dark brown (Chestnut) coarse-loamy soil on steep backslopes in dissected landscapes; developed in residuum from coarse-textured granite and granite gneiss	Very high 0.28, 0.24 – 0.24, 0.24 B	POOR shallow to rock; very steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED very steep slopes	SECONDARY PASTURE	LOW	
238A** Belvoir loam 0 - 2%	Very deep, somewhat poorly drained, mottled brownish-yellow fragipan soils with intermittent high water tables on broad, nearly level summits and slight depressions; developed in local colluvium and residuum from granitic rocks; may have HYDRIC soil inclusions	Moderate 0.37, 0.28 C	FAIR intermittent high water table **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR high water table fragipan	PRIME PASTURE	MODERATE	
238B** Belvoir loam 2 - 7%	Very deep, somewhat poorly drained, mottled brownish-yellow fragipan soils with intermittent high water tables on broad , undulating summits and slight depressions; developed in local colluvium and residuum from granitic rocks; may have HYDRIC soil inclusions	Moderate 0.37, 0.28 C	FAIR intermittent high water table **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR high water table fragipan	PRIME PASTURE	MODERATE	

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MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
238C** Belvoir loam 7 - 15%	Very deep, somewhat poorly drained, mottled brownish-yellow fragipan soils with intermittent high water tables on broad, rolling summits and slight depressions; developed in local colluvium and residuum from granitic rocks; may have HYDRIC soil inclusions	Moderate 0.32, 0.28 C	FAIR intermittent high water table **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR high water table fragipan	PRIME PASTURE	MODERATE	
240B** Catoctin silt loam (shallow phase) 2 - 7%	Shallow, well drained, olive brown, loamy-skeletal soils on steep backslopes; may have a few cobbles and/or stones on the surface; developed in residuum from greenstone	High 0.32, 0.17 D	POOR shallow to rock; steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED shallow to rock steep slopes	PRIME CROPLAND	LOW	
240C** Catoctin silt loam (shallow phase) 7 - 15%	Shallow, well drained, olive brown, loamy-skeletal soils on steep backslopes; may have a few cobbles and/or stones on the surface; developed in residuum from greenstone	High 0.32, 0.17 D	POOR shallow to rock; steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED shallow to rock steep slopes	PRIME CROPLAND	LOW	
240D** Catoctin silt loam (shallow phase) 15 - 25%	Shallow, well drained, olive brown, loamy-skeletal soils on steep backslopes; may have a few cobbles and/or stones on the surface; developed in residuum from greenstone	High 0.32, 0.17 D	POOR shallow to rock; steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED shallow to rock steep slopes	PRIME CROPLAND	LOW	
240E** Catoctin silt loam (shallow phase) 25 - 45%	Shallow, well drained, olive brown, loamy-skeletal soils on steep backslopes; may have a few cobbles and/or stones on the surface; developed in residuum from greenstone	High 0.32, 0.17 D	POOR shallow to rock; steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED shallow to rock steep slopes	NOT SUITED	LOW	
241B** Alanthus –Pignut complex 2 - 7 %	Very deep, well drained, yellowish-red silty soils (Alanthus) and moderately deep, well drained, strong brown silty soils (Pignut) on undulating summits; soil surface may contain a few cobbles and/or stones; developed in residuum from greenstone	Moderate 0.37, 0.23 B – C	FAIR shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL shallow to rock	PRIME CROPLAND	MODERATELY HIGH	

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MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
241C** Alanthus –Pignut complex 7 - 15 %	Very deep, well drained, yellowish-red silty soils (Alanthus) and moderately deep, well drained, strong brown silty soils (Pignut) on rolling summits and strongly sloping backslopes; soil surface may contain a few cobbles and/or stones; developed in residuum from greenstone	Moderate 0.37, 0.23 B – C	FAIR shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL shallow to rock	SECONDARY CROPLAND	MODERATELY HIGH	
241D** Pignut– Alanthus complex 15 - 25 %	Moderately deep, well drained, strong brown silty soils (Pignut) and very deep, well drained, yellowish-red silty soils (Alanthus) on moderately steep backslopes; soil surface may contain a few cobbles and/or stones; developed in residuum from greenstone	High 0.37, 0.23 C - B	POOR shallow to rock; steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock steep slopes	PRIME PASTURE	MODERATE	
260E** Catlett gravelly silt loam, rocky 25 - 65%	Shallow, well drained, grayish-brown silty soils containing more than 35% rock fragments on steep backslopes with 0.5 to 2 percent rock-outcrop; developed in residuum from bluish-gray thermally altered Triassic shale	Very High 0.20, 0.10 D	VERY POOR shallow to rock; very steep slopes; rock outcrop **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED shallow to rock very steep slopes	NOT SUITED	LOW	
265B** Montalto silty clay loam, stony 2 - 7%	Very deep, well drained, red clayey soils with few stones and boulders on undulating summits; developed in residuum from Triassic diabase.	Moderate 0.32, 0.28 C	GOOD **Bearing Capacity:** low **Shrink-swell Potential:** moderate	MARGINAL percs slowly	PRIME CROPLAND	MODERATE	
265C** Montalto silty clay loam, stony 7 -15%	Very deep, well drained, red clayey soils with few stones and boulders on strongly sloping backslopes; developed in residuum from Triassic diabase.	Moderate 0.32, 0.28 C	GOOD **Bearing Capacity:** low **Shrink-swell Potential:** moderate	MARGINAL percs slowly	SECONDARY CROPLAND	MODERATE	
265D** Montalto silty clay loam, stony 15 - 25%	Very deep, well drained, red clayey soils with few stones and boulders on moderately steep backslopes; developed in residuum from Triassic diabase.	High 0.32, 0.28 C	FAIR steep slopes **Bearing Capacity:** low **Shrink-swell Potential:** moderate	MARGINAL percs slowly steep slopes	PRIME PASTURE	MODERATE	

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MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
269A** Meetze very gravelly silt loam 0 - 2%	Deep, poorly drained, dark gray loamy-skeletal soils (containing more than 35 percent gravels and cobbles in the subsoil) in drainageways; formed in alluvium from diabase and basalt; HYDRIC SOIL	Slight 0..20, 0.15 D	VERY POOR frequent flooding; occasional ponding; concentrated runoff from higher areas; high water table; low relief **Bearing Capacity:** low **Shrink-swell Potential:** high in lower substratum	NOT SUITED high water table	SECONDARY PASTURE	LOW	
270B** Mt. Lucas loam 2 - 7%	Deep, somewhat poorly drained, yellowish-brown loamy over clayey soils on undulating summits and gently sloping footslopes; developed in colluvium over residuum from basalt and diabase; may have HYDRIC soil inclusions	Moderate 0.32, 0.28 C	POOR high water table; shrink-swell may occur in lower subsoil **Bearing Capacity:** low **Shrink-swell Potential:** high	NOT SUITED high water table	PRIME PASTURE	MODERATE	
274A** Ashburn gravelly silt loam 0 - 2%	Moderately deep, moderately well drained ,yellowish-brown silty soils with intermittent high water table water tables on nearly level landscapes; developed from thin fluvial capping over Triassic siltstone	Slight 0.32, 0.24 C	FAIR intermittent high water table; low bearing capacity when wet due to high silt content and/or shrink-swell clay in lower horizon **Bearing Capacity:** low **Shrink-swell Potential:** moderate	POOR shallow to rock high water table	SECONDARY CROPLAND	MODERATELY LOW	
274B** Ashburn gravelly silt loam 2 - 7%	Moderately deep, moderately well drained ,yellowish-brown silty soils with intermittent high water table water tables gently sloping landscapes; developed from thin fluvial capping over Triassic siltstone	Moderate 0.32, 0.24 C	FAIR intermittent high water table; low bearing capacity when wet due to high silt content and/or shrink-swell clay in lower horizon **Bearing Capacity:** low **Shrink-swell Potential:** moderate	POOR shallow to rock high water table	SECONDARY CROPLAND	MODERATELY LOW	
275B** Clover gravelly silt loam 2 - 7%	Very deep, well drained, red to dark-red clayey soils on undulating summits; developed in residuum from Triassic siltstone and conglomerate	Moderate 0.32, 0.28 B	GOOD **Bearing Capacity:** moderate **Shrink-swell Potential:** moderate	MARGINAL percs slowly	PRIME CROPLAND	MODERATE	

*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
276B** Sudley very gravelly silt loam 2 - 7%	Very deep, well drained, strong brown to reddish-brown loamy soils on undulating summits and gently sloping backslopes; developed in residuum from Triassic conglomerate	Moderate 0.32, 0.28 B	FAIR Very gravelly surface **Bearing Capacity:** moderate **Shrink-swell Potential:** low	GOOD	SECONDARY CROPLAND	MODERATE	
276C** Sudley very gravelly silt loam 7 - 15%	Very deep, well drained, strong brown to reddish-brown loamy soils on strongly sloping backslopes; developed in residuum from Triassic conglomerate	Moderate 0.32, 0.28 B	FAIR Very gravelly surface **Bearing Capacity:** moderate **Shrink-swell Potential:** low	GOOD	SECONDARY CROPLAND	MODERATE	
300** Urban land	This unit consists of areas where more than 80 percent of the surface is covered by parking lots, buildings, and other structures.	HIGHLY VARIABLE					
313A** Sumerduck Variant silt loam 0 - 2%	Very deep, moderately well drained, yellowish-brown loamy soils on footslopes, heads of drainageways and benches; developed in local wash and residuum from sericite and biotite schist and gneiss	slight 0.37, 032 B	FAIR high water table **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR high water table	PRIME CROPLAND	MODERATE	
313B** Sumerduck Variant silt loam 2 - 7%	Very deep, moderately well drained, yellowish-brown loamy soils on footslopes, heads of drainageways and benches; developed in local wash and residuum from sericite and biotite schist and gneiss	Moderate 0.37, 0.32 B	FAIR high water table **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR high water table	PRIME CROPLAND	MODERATE	
313C** Sumerduck Variant silt loam 7 - 15%	Very deep, moderately well drained, yellowish-brown loamy soils on footslopes, heads of drainageways and benches; developed in local wash and residuum from sericite and biotite schist and gneiss	Moderate 0.37, 0.32 B	FAIR high water table **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR high water table	SECONDARY CROPLAND	MODERATE	
320B** Tankerville loam, very stony 2 - 7%	Moderately deep, well drained, strong brown coarse-loamy soils on undulating summits and gently sloping backslopes; 0.1 – 3% surface stones; developed in residuum from granite, schist and gneiss	Moderate 0.32, 0.24 C	FAIR shallow to rock; stones **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock	SECONDARY PASTURE	LOW	

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MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
320C** Tankerville loam, very stony 7 - 15%	Moderately deep, well drained, strong brown coarse-loamy soils on rolling summits and strongly sloping backslopes; 0.1 – 3% surface stones; developed in residuum from granite, schist and gneiss	High 0.32, 0.24 C	FAIR shallow to rock; stones **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock	SECONDARY PASTURE	LOW	
320D** Tankerville loam, very stony 15 - 25%	Moderately deep, well drained, strong brown coarse-loamy soils on moderately steep backslopes; 0.1 – 3% surface stones; developed in residuum from granite, schist and gneiss	High 0.32, 0.24 C	POOR shallow to rock; stones; steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock steep slopes	SECONDARY PASTURE	LOW	
320E** Tankerville loam, very stony 25 - 45%	Moderately deep, well drained, strong brown coarse-loamy soils on steep backslopes; 0.1 – 3% surface stones; developed in residuum from granite, schist and gneiss	Very high 0.32, 0.24 C	VERY POOR shallow to rock; very steep slopes; stones **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED shallow to rock very steep slopes	SECONDARY PASTURE	LOW	
320F** Tankerville loam, very stony 45 - 65%	Moderately deep, well drained, strong brown coarse-loamy soils on very steep backslopes; 0.1 – 3% surface stones; developed in residuum from granite, schist and gneiss	Very high 0.32, 0.24 C	VERY POOR shallow to rock; very steep slopes; stones **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED shallow to rock very steep slopes	NOT SUITED	LOW	
321C**	**SEE MAP UNIT 130C**						
325C** Hazel – Edgemont complex 7 - 15%	Moderately deep, excessively drained, yellowish-brown coarse-loamy soils (Hazel) and very deep, well drained, yellowish-brown loamy soils (Edgemont) on narrow summits and strongly sloping backslopes; developed in residuum from arkosic sandstone and meta-graywacke	Moderate 0.32, 0.24 – 0.32, 0.28 C - B	FAIR shallow to rock **Bearing Capacity:** moderate - low **Shrink-swell Potential:** low	MARGINAL shallow to rock	SECONDARY CROPLAND	MODERATELY LOW	
325D** Hazel – Edgemont complex 15 - 25%	Moderately deep, excessively drained, yellowish-brown coarse-loamy soils (Hazel) and very deep, well drained, yellowish-brown loamy soils (Edgemont) on moderately steep backslopes; developed in residuum from arkosic sandstone and meta-graywacke	High 0.32, 0.24 – 0.32, 0.28 C - B	FAIR shallow to rock; steep slopes **Bearing Capacity:** moderate - low **Shrink-swell Potential:** low	MARGINAL shallow to rock steep slopes	PRIME PASTURE	MODERATELY LOW	

*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
325E** Hazel – Edgemont complex 25 - 45%	Moderately deep, excessively drained, yellowish-brown coarse-loamy soils (Hazel) and very deep, well drained, yellowish-brown loamy soils (Edgemont) on steep backslopes; developed in residuum from arkosic sandstone and meta-graywacke	Very High 0.32, 0.24 – 0.32, 0.28 C - B	POOR very steep slopes; shallow to rock **Bearing Capacity:** moderate - low **Shrink-swell Potential:** low	NOT SUITED very steep slopes	SECONDARY PASTURE	LOW	
330C** Peaks sandy loam; very stony 7 - 15%	Moderately deep, excessively well drained, dark brown, loamy skeletal soil on rolling summits and strongly sloping backslopes; contains greater than 35% coarse fragments in the subsoil; developed in residuum from coarse-grained granite; predominantly found on the Cobbler mountain formations	Moderate 0.24, 0.24 C	FAIR shallow to rock; stoniness **Bearing Capacity:** high **Shrink-swell Potential:** low	POOR shallow to rock	SECONDARY PASTURE	LOW	
330D** Peaks sandy loam; very stony 15 - 25%	Moderately deep, excessively well drained, dark brown , loamy skeletal soil on moderately steep backslopes; contains greater than 35% coarse fragments in the subsoil; developed in residuum from coarse-grained granite; predominantly found on the Cobbler Mountain formations	High 0.24, 0.24 C	FAIR steep slopes; shallow to rock; stoniness **Bearing Capacity:** high **Shrink-swell Potential:** low	POOR shallow to rock steep slopes	SECONDARY PASTURE	LOW	
330E** Peaks sandy loam; very stony 25 - 50%	Moderately deep, excessively well drained, dark brown, loamy skeletal soil on steep backslopes; contains greater than 35% coarse fragments in the subsoil; developed in residuum from coarse-grained granite; predominantly found on the Cobbler Mountain formations	Very high 0.24, 0.24 C	POOR very steep slopes; shallow to rock; stoniness **Bearing Capacity:** high **Shrink-swell Potential:** low	NOT SUITED shallow to rock very steep slopes	NOT SUITED	LOW	
340B** Catoctin silt loam 2 - 7%	Moderately deep, well drained, strong brown loamy-skeletal soils containing more than 35% rock fragments in the subsoil on undulating summits and gently sloping backslopes in highly dissected landscapes; developed in residuum from greenstone	Moderate 0.32, 0.17 C	FAIR shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock	SECONDARY CROPLAND	MODERATELY LOW	
340C** Catoctin silt loam 7 - 15%	Moderately deep, well drained, strong brown loamy-skeletal soils containing more than 35% rock fragments in the subsoil on rolling summits and strongly sloping backslopes in highly dissected landscapes; developed in residuum from greenstone	Moderate 0.32, 0.17 B	FAIR shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock	SECONDARY CROPLAND	MODERATELY LOW	

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MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
340D**	Moderately deep, well drained, strong brown loamy-skeletal soils containing more than 35%	High	FAIR	POOR	PRIME PASTURE	MODEARTELY LOW	
Catoctin silt loam	rock fragments in the subsoil on moderately steep backslopes in highly dissected	0.32, 0.17	shallow to rock; steep slopes **Bearing Capacity:** moderate	shallow to rock steep slopes			
15 - 25%	landscapes; developed in residuum from greenstone	C	**Shrink-swell Potential:** low				
340E**	Moderately deep, well drained, strong brown loamy-skeletal soils containing more than 35%	Very high	POOR	NOT SUITED	SECONDARY PASTURE	LOW	
Catoctin silt loam	rock fragments in the subsoil on steep backslopes in highly dissected landscapes;	0.32, 0.17	shallow to rock; very steep slopes **Bearing Capacity:** moderate	shallow to rock very steep slopes			
25 - 50%	developed in residuum from greenstone	C	**Shrink-swell Potential:** low				
365B**	Very deep, well drained, red clayey soils with many stones and few boulders on undulating	Moderate	FAIR	MARGINAL	SECONDARY PASTURE	MODERATELY LOW	
Montalto silty clay loam, extremely stony	summits of ridges; developed in residuum from Triassic diabase.	0.32, 0.28	stoniness **Bearing Capacity:** low	percs slowly			
2 - 7%		B	**Shrink-swell Potential:** moderate				
365C**	Very deep, well drained, red clayey soils with many stones and few boulders on strongly	Moderate	FAIR	MARGINAL	SECONDARY PASTURE	MODERATELY LOW	
Montalto silty clay loam, extremely stony	sloping backslopes; developed in residuum from Triassic diabase.	0.32, 0.28	stoniness **Bearing Capacity:** low	percs slowly			
7 - 15%		B	**Shrink-swell Potential:** moderate				
370B**	Very deep, somewhat poorly drained, yellowish-brown loamy over clayey soils on	Moderate	POOR	NOT SUITED	SECONDARY PASTURE	MODERATELY LOW	
Mt. Lucas loam, extremely stony	gently sloping summits and footslopes; soil surface is covered by 4 – 15% stones;	0.32, 0.28	intermittent high water table; stoniness	high water table			
2 - 7%	developed in colluvium over residuum from basalt and diabase; may have HYDRIC soil inclusions	C	**Bearing Capacity:** low **Shrink-swell Potential:** moderate				
374A**	Moderately deep, somewhat poorly drained, strong brown silty soils with intermittent high	Slight	FAIR	POOR	SECONDARY CROPLAND	MODERATELY LOW	
Ashburn silt loam, wet phase	water tables on broad, nearly level upland flats; developed from thin fluvial capping over	0.37, 0.24	intermittent high water table; low bearing capacity when wet due to	shallow to rock water table			
0 - 2%	Triassic siltstone, fine grained sandstone and shale	C	high silt content and/or shrink-swell clay in lower horizon **Bearing Capacity:** low **Shrink-swell Potential:** moderate				

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MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
374B** Ashburn silt loam, wet phase 2 - 7%	Moderately deep, somewhat poorly drained, strong brown silty soils with intermittent high water tables on broad, gently sloping upland flats; developed from thin fluvial capping over Triassic siltstone, fine grained sandstone and shale	Slight 0.37, 0.24 C	FAIR intermittent high water table; low bearing capacity when wet due to high silt content and/or shrink-swell clay in lower horizon **Bearing Capacity:** low **Shrink-swell Potential:** moderate	POOR shallow to rock water table	SECONDARY CROPLAND	MODERATELY LOW	
413B** Lignum Variant silt loam 2 - 7%	Very deep, moderately well to somewhat poorly drained, mottled yellowish-brown and gray clayey soils on footslopes, heads of drainageways and gently sloping benches; developed in local wash and residuum from sericite and biotite schist and gneiss; may have HYDRIC soil inclusions	Moderate 0.37, 0.28 C	POOR intermittent high water table; low bearing capacity; may have shrink-swell clay in subsoil **Bearing Capacity:** low **Shrink-swell Potential:** high	NOT SUITED high water table	PRIME PASTURE	MODERATELY LOW	
413C** Lignum Variant silt loam 7 - 15%	Very deep, moderately well to somewhat poorly drained, mottled yellowish-brown and gray clayey soils on footslopes, heads of drainageways and strongly sloping backslopes; developed in local wash and residuum from sericite and biotite schist and gneiss; may have HYDRIC soil inclusions	Moderate 0.37, 0.28 C	POOR Intermittent high water table; low bearing capacity; may have shrink-swell clay in subsoil **Bearing Capacity:** low **Shrink-swell Potential:** high	NOT SUITED high water table	PRIME PASTURE	MODERATELY LOW	
415A** Seneca Variant loam 0-2%	Very deep, moderately well drained, yellowish-brown loamy soils with intermittent high water tables on nearly level colluvial benches and toeslopes; developed in recent colluvium from crystalline uplands	Slight 0.37, 0.28 B	FAIR intermittent high water table; low bearing capacity when wet **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR high water table	PRIME CROPLAND	MODERATELY HIGH	
415B** Seneca Variant loam 2 - 7%	Very deep, moderately well drained, yellowish-brown loamy soils with intermittent high water tables on gently sloping colluvial benches and toeslopes; developed in recent colluvium from crystalline uplands	Moderate 0.37, 0.28 B	FAIR intermittent high water table; low bearing capacity when wet **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR high water table	PRIME CROPLAND	MODERATELY HIGH	

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415C** Seneca Variant loam 7 - 15%	Very deep, moderately well drained, yellowish-brown loamy soils with intermittent high water tables on strongly sloping colluvial benches and toeslopes; developed in recent colluvium from crystalline uplands	Moderate 0.37, 0.28 B	FAIR intermittent high water table; low bearing capacity when wet **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR high water table	SECONDARY CROPLAND	MODERATELY HIGH	
4l6A** Meadowville Variant silt loam 0 - 2%	Very deep, well drained, yellowish-brown to reddish-brown silty soils on nearly level colluvial benches and toeslopes; developed in recent colluvium and local wash from acid rock materials	Slight 0.37, 0.32 B	GOOD Intermittent high water table **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL landscape position	PRIME CROPLAND	MODERATELY HIGH	
4l6B** Meadowville Variant silt loam 2 - 7%	Very deep, well drained, yellowish-brown to reddish-brown silty soils on gently sloping colluvial benches and toeslopes; developed in recent colluvium and local wash from acid rock materials	Moderate 0.37, 0.32 B	GOOD Intermittent high water table **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL landscape position	PRIME CROPLAND	MODERATELY HIGH	
4l6C** Meadowville Variant silt loam 7 - 15%	Very deep, well drained, yellowish-brown to reddish-brown silty soils on strongly sloping colluvial benches and toeslopes; developed in recent colluvium and local wash from acid rock materials	Moderate 0.37, 0.32 B	GOOD Intermittent high water table **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL landscape position	SECONDARY CROPLAND	MODERATELY HIGH	
417B** Middleburg Variant loam 2 - 7%	Very deep, well drained, brown loamy soils on gently sloping colluvial benches and toeslopes; developed in recent colluvium from basic crystalline rock materials	Moderate 0.37, 0.32 B	GOOD Intermittent high water table **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL landscape position	PRIME CROPLAND	HIGH	
417C** Middleburg Variant loam 7- 15%	Very deep, well drained, brown loamy soils on strongly sloping colluvial benches and toeslopes; developed in recent colluvium from basic crystalline rock materials	Moderate 0.37, 0.32 B	GOOD Intermittent high water table **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL landscape position	SECONDARY CROPLAND	HIGH	

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MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
420E** Tankerville loam, extremely stony 25 - 45%	Moderately deep, well drained, strong brown coarse-loamy soils on steep backslopes; 3 – 15% surface stones; developed in residuum from granite, schist and gneiss	Very high 0.32, 0.24 C	VERY POOR shallow to rock; very steep slopes; stones **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED shallow to rock very steep slopes	NOT SUITED	LOW	
420F** Tankerville loam, extremely stony 45 - 65%	Moderately deep, well drained, strong brown coarse-loamy soils on very steep backslopes; 3– 15% surface stones; developed in residuum from granite, schist and gneiss	Very high 0.32, 0.24 C	VERY POOR shallow to rock; very steep slopes; stones **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED shallow to rock very steep slopes	NOT SUITED	LOW	
421B** Philomont sandy loam 2 - 7%	Very deep, well drained, yellowish-brown coarse-loamy soils on undulating summits and gently sloping backslopes; developed in residuum from augen gneiss, granite gneiss and granite	Moderate 0.24, 0.17 B	GOOD **Bearing Capacity:** moderate **Shrink-swell Potential:** low	GOOD	SECONDARY CROPLAND	MODERATE	
421C** Philomont sandy loam 7- 15	Very deep, well drained, yellowish-brown coarse-loamy soils on rolling summits and strongly sloping backslopes; developed in residuum from augen gneiss, granite gneiss and granite	high 0.24, 0.17 B	GOOD **Bearing Capacity:** moderate **Shrink-swell Potential:** low	GOOD	SECONDARY CROPLAND	MODERATE	
421D** Philomont sandy loam 15- 25	Very deep, well drained, yellowish-brown coarse-loamy soils on moderately steep backslopes; developed in residuum from augen gneiss, granite gneiss and granite	high 0.24, 0.17 B	FAIR **Bearing Capacity:** moderate **Shrink-swell Potential:** low	MARGINAL steep slopes	PRIME PASTURE	MODERATELY LOW	
421E** Philomont sandy loam 25- 45	Very deep, well drained, yellowish-brown coarse-loamy soils on steep backslopes; developed in residuum from augen gneiss, granite gneiss and granite	Very high 0.24, 0.17 B	POOR very steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR very steep slopes	SECONDARY PASTURE	MODERATELY LOW	
421F** Philomont sandy loam 45- 65	Very deep, well drained, yellowish-brown coarse-loamy soils on very steep backslopes; developed in residuum from augen gneiss, granite gneiss and granite	Very high 0.24, 0.17 B	NOT SUITED very steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED very steep slopes	NOT SUITED	MODERATELY LOW	

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425C** Hazel fine sandy loam 7- 15%	Moderately deep, excessively drained, yellowish-brown coarse-loamy soils on rolling summits and strongly sloping backslopes; developed in residuum from arkosic sandstone and meta-graywacke	Moderate 0.32, 0.24 C	FAIR shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock	SECONDARY CROPLAND	MODERATELY LOW	
425D** Hazel fine sandy loam 15- 25%	Moderately deep, excessively drained, yellowish-brown coarse-loamy soils on moderately steep backslopes; developed in residuum from arkosic sandstone and meta-graywacke	High 0.32, 0.24 C	FAIR shallow to rock; steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock steep slopes	PRIME PASTURE	MODERATELY LOW	
425E** Hazel fine sandy loam 25- 45%	Moderately deep, excessively drained, yellowish-brown coarse-loamy soils on steep backslopes; developed in residuum from arkosic sandstone and meta-graywacke	Very High 0.32, 0.24 C	POOR shallow to rock; very steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED shallow to rock very steep slopes	SECONDARY PASTURE	LOW	
430B** Chestnut sandy loam 2 - 7%	Moderately deep, well drained, dark brown coarse-loamy soil on undulating summits and gently sloping backslopes; developed in residuum from coarse-grained granite	Moderate 0.24, 0.24 B	FAIR shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock	PRIME CROPLAND	MODERATELY LOW	
430C** Chestnut sandy loam 7 - 15%	Moderately deep, well drained, dark brown coarse-loamy soil on rolling summits and strongly sloping backslopes; developed in residuum from coarse-grained granite	Moderate 0.24, 0.24 B	FAIR shallow to rock; steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock; steep slopes	SECONDARY CROPLAND	MODERATELY LOW	
430D** Chestnut sandy loam 15 - 25%	Moderately deep, well drained, dark brown coarse-loamy soil on moderately steep backslopes; developed in residuum from coarse-grained granite;	High 0.24, 0.24 B	POOR shallow to rock; steep slopes **Bearing Capacity:** moderate **Shrink-swell Potential:** low	POOR shallow to rock steep slopes	PRIME PASTURE	MODERATELY LOW	
430E** Chestnut sandy loam 25 - 50%	Moderately deep, well drained, dark brown coarse-loamy soil on steep backslopes; developed in residuum from coarse-grained granite	Very high 0.24, 0.24 B	VERY POOR very steep slopes; shallow to rock **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED shallow to rock very steep slopes	SECONDARY PASTURE	LOW	

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430E3** Chestnut sandy loam; severely eroded 25 - 50%	Moderately deep, well drained, dark brown, coarse-loamy soil on steep backslopes; most of the topsoil and subsoil has been eroded off, developed in residuum from coarse-grained granite	Very High 0.24, 0.24 B	VERY POOR very steep slopes; shallow to rock; severely eroded **Bearing Capacity:** moderate **Shrink-swell Potential:** moderate	NOT SUITED very steep slopes shallow to rock	NOT SUITED	LOW	
434B** Flume loam 2 - 7%	Very deep, moderately well drained, yellowish-red clayey soils on undulating summits and gently sloping backslopes; developed in residuum from sericite, biotite schist and meta-monzonite granite	Moderate 0.37, 0.28 C	FAIR intermittent high water table **Bearing Capacity:** moderate **Shrink-swell Potential:** moderate	POOR high water table	PRIME CROPLAND	MODERATELY LOW	
434C** Flume loam 7 - 15%	Very deep, moderately well drained, yellowish-red clayey soils on strongly sloping backslopes; developed in residuum from sericite, biotite schist and meta-monzonite granite	Moderate 0.37, 0.28 C	FAIR intermittent high water table **Bearing Capacity:** moderate **Shrink-swell Potential:** moderate	POOR high water table	SECONDARY CROPLAND	MODERATELY LOW	
438A** Swampoodle Variant loam 0 - 2%	Very deep, somewhat poorly drained, brownish- yellow loamy soils with high water tables on broad nearly level summits and slight depressions; may have shrink-swell clay in subsoil; developed in local colluvium and residuum from granitic rocks; may have HYDRIC soil inclusions	Moderate 0.32, 0.28 C	VERY POOR high water table; possible shrink-swell clays **Bearing Capacity:** low **Shrink-swell Potential:** high	NOT SUITED high water table	PRIME PASTURE	MODERATE	
438B** Swampoodle Variant loam 2 - 7%	Very deep, somewhat poorly drained, brownish- yellow loamy soils with high water tables on broad undulating summits and slight depressions; may have shrink-swell clay in subsoil; developed in local colluvium and residuum from granitic rocks; may have HYDRIC soil inclusions	Moderate 0.32, 0.28 C	VERY POOR high water table; possible shrink-swell clays **Bearing Capacity:** low **Shrink-swell Potential:** high	NOT SUITED high water table	PRIME PASTURE	MODERATE	
440B** Pignut silt loam (wet phase) 2 - 7%	Moderately deep, moderately well to somewhat poorly drained, strong brown to yellowish red silty soils on undulating summits and gently sloping backslopes in highly dissected landscapes; developed in residuum from greenstone to chloritic schist	Moderate 0.37, 0.32 C	FAIR shallow to rock, wetness **Bearing Capacity:** moderate **Shrink-swell Potential:** moderate	POOR shallow to rock, wetness	SECONDARY CROPLAND	MODERATE	

*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR SELECTED USES: GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
440C** Pignut silt loam (wet phase) 7 - 15%	Moderately deep, moderately well to somewhat poorly drained, strong brown to yellowish red silty soils on rolling summits and strongly sloping backslopes in highly dissected landscapes; developed in residuum from greenstone to chloritic schist	Moderate 0.37, 0.32 C	FAIR shallow to rock, wetness **Bearing Capacity:** moderate **Shrink-swell Potential:** moderate	POOR shallow to rock, wetness	SECONDARY CROPLAND	MODERATE	
440D** Pignut silt loam (wet phase) 15 - 25%	Moderately deep, moderately well to somewhat poorly drained, strong brown to yellowish red silty soils on moderately steep backslopes in highly dissected landscapes; developed in residuum from greenstone and chloritic schist	High 0.37, 0.32 C	FAIR shallow to rock, wetness **Bearing Capacity:** moderate **Shrink-swell Potential:** moderate	POOR shallow to rock, wetness	PRIME PASTURE	MODERATE	
474A** Calverton silt loam 0-2%	Deep, somewhat poorly drained, yellowish brown over reddish brown silty soils with seasonal perched water tables on broad, nearly level upland flats. Developed from old fluvial capping over triassic siltstone, and fine-grained sandstone	Slight 0.37, 0.24 C	FAIR Intermittent high water table; low bearing capacity when wet due to high silt content. **Bearing capacity: low** **Shrink-swell Potential: low**	NOT SUITED Shallow restrictive layer; high seasonal/perched water table	SECONDARY PASTURE	MODERATELY LOW	
474B** Calverton silt loam 2-7%	Deep, somewhat poorly drained, yellowish brown over reddish brown silty soils with seasonal perched water tables on gently sloping shoulders and heads of drainageways. Developed from old fluvial capping over triassic siltstone, and fine-grained sandstone	Moderate 0.37, 0.24 C	FAIR Intermittent high water table; low bearing capacity when wet. **Bearing Capacity:** low **Shrink-swell Potential:** low	NOT SUITED Shallow restrictive layer; high seasonal/perched water table	SECONDARY PASTURE	MODERATELY LOW	
475A** Tinpot loam 0-2%	Very deep, moderately well to somewhat poorly drained, yellowish-red, dense clayey soils on nearly level summits; developed in residuum from Triassic conglomerate, shale and fine-grained sandstone	Slight 0.37, 0.28 C	FAIR high water table **Bearing Capacity:** low **Shrink-swell Potential:** high	POOR high water table percs very slowly	SECONDARY CROPLAND	MODERATELY LOW	
475B** Tinpot loam 2 - 7%	Very deep, moderately well to somewhat poorly drained yellowish-red dense clayey soils on undulating summits; developed in residuum from Triassic conglomerate, shale and fine-grained sandstone	Moderate 0.37, 0.28 C	FAIR high water table **Bearing Capacity:** low **Shrink-swell Potential:** high	POOR high water table; percs very slowly	SECONDARY CROPLAND	MODERATELY LOW	
475C** Tinpot loam 7 - 15%	Very deep, moderately well to somewhat poorly drained, yellowish-red, dense clayey soils on strongly sloping backslopes; developed in residuum from Triassic conglomerate, shale and fine-grained sandstone	Moderate 0.37, 0.28 C	FAIR high water table **Bearing Capacity:** low **Shrink-swell Potential:** high	POOR high water table; percs very slowly	SECONDARY CROPLAND	MODERATELY LOW	

*Table. Summary of Soil Characteristics and Use Potential (**-- not part of official soil survey)*

MAP. UNIT SYMBOL SOIL NAME SLOPE	SOIL CHARACTERISTICS	EROSION HAZARD K Factor (surface/subsoil) HYDROLOGIC GROUP	USE POTENTIAL AND PROBLEMS FOR GENERAL DEVELOPMENT USING CENTRAL WATER AND CENTRAL SEWER	DEVELOPMENT USING CONVENTIONAL SEPTIC TANK AND DRAINFIELD	SELECTED USES AGRICULTURE	FORESTRY (HARDWOOD)	LAND USE CAPABILITY CLASS
480B** Brentsville loam Variant 2 - 7%	Moderately deep, well drained, brown loamy soils on undulating summits and gently sloping backslopes, developed in residuum from Triassic sandstone and/or meta-shale	Moderate 0.28, 0.15 C	GOOD few problems **Bearing Capacity:** high **Shrink-swell Potentia**l: low	POOR shallow to rock	SECONDARY CROPLAND	MODERATELY LOW	
481B** Brumbaugh Variant loam 2 - 7%	Very deep, moderately well drained, light yellowish-brown to strong brown clayey soils on footslopes and toeslopes of mountains and broad gently sloping interfluves; semi-rounded stones make up 5-50% of the soil; developed in old mountain colluvium from mixed acidic and basic rocks	Moderate 0.28, 0.20 B	FAIR intermittent high water table; low bearing capacity when wet due to shrink-swell clays **Bearing Capacity:** low **Shrink-swell Potentia**l: high	POOR high water table	SECONDARY CROPLAND	MODERATE	
482B** Scattersville Variant loam 2 - 7%	Very deep, somewhat poorly drained, brownish yellow and gray clayey soils on gently sloping footslopes; developed in colluvium from felsic to mafic rock	Moderate 0.37, 0.28 C	VERY POOR high water table; low bearing capacity when wet **Bearing Capacity:** low **Shrink-swell Potential:** high	NOT SUITED high water table	SECONDARY PASTURE	MODERATELY LOW	
493A** Delanco Variant loam 0 - 2%	Very deep, somewhat poorly drained, yellowish-brown clayey soils with high water tables on nearly level, low terraces along major streams; developed in old alluvium washed from uplands underlain by a wide variety of rocks common to the county; may have HYDRIC soil inclusions	Slight 0.28, 0.28 C	VERY POOR may be in 100 year floodplain; rare flooding; high water table; low bearing capacity when wet; shrink-swell clay **Bearing Capacity:** low **Shrink-swell Potential:** high	NOT SUITED high water table	SECONDARY PASTURE	MODERATELY LOW	
520F** Tankerville loam, rubbly 45 - 65%	Moderately deep, well drained, strong brown coarse-loamy soils on very steep backslopes; 15% or more surface stones; developed in residuum from granite, schist and gneiss	Very high 0.32, 0.24 C	VERY POOR shallow to rock; very steep slopes; stones **Bearing Capacity:** moderate **Shrink-swell Potential:** low	NOT SUITED shallow to rock very steep slopes	NOT SUITED	LOW	